## FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, D.C. 20426

February 29,

2000

To: Fitchburg Gas and Electric Light

Docket No. ER00-1215-000

Company

Pursuant to authority delegated to the Deputy Director, Office of Markets, Tariffs and Rates, under 18 C.F.R. 375.307, your submittal in the above referenced docket(s) is accepted for filing. Your rate schedule designations are shown on the Enclosure.

Under 18 C.F.R. 385.210, interventions are timely if made within the time prescribed by the Secretary. Under 18 C.F.R. 385.214, the filing of a timely motion to intervene makes the movant a party to the proceeding, if no answer in opposition is filed within fifteen days. The filing of a timely notice of intervention makes a State Commission a party to the proceeding.

This action does not constitute approval of any service, rate, charge, classification, or any rule, regulation, contract, or practice affecting such rate or service provided for in the filed documents; nor shall such action be deemed as recognition of any claimed contractual right or obligation affecting or relating to such service or rate; and such action is without prejudice to any findings or orders which have been or may hereafter be made by the Commission in any proceeding now pending or hereafter instituted by or against any of the applicant(s).

This order constitutes final agency action. Requests for rehearing by the Commission may be filed within 30 days of the date of issuance of this order, pursuant to 18 C.F.R. 385.713.

Sincerely,

Shelton M. Cannon, Deputy Director Office of Markets, Tariffs and

Rates

Enclosure

Fitchburg Gas and Electric Light Company
Docket No. ER00-1215-000
Rate Schedule Designations

Page 2 of 2 DTE 02-24/25 (Electric) Attachment AG-5-7 Page 2 of 71

Description/

Designation

Effective date

(1) Third Revised Sheet Nos.

135, 137, and 174 under

FERC Electric Tariff, First Revised Volume No. 4 (Supersedes Second Revised Sheet Nos. 135, 137, and 174 under FERC Electric Tariff, First Revised Volume No. 4

(2) Fourth Revised Sheet Nos.

135, 137, and 174 under

FERC Electric Tariff, First Revised Volume No. 4 (Supersedes Third Revised Sheet Nos. 135, 137, and 174 under FERC Electric Tariff, First Revised Volume No. 4) Revised Tariff Sheets under Period One/ March 1, 1998

> Revised Tariff Sheets under Period Two/ June 1, 1999

## ORIGINAL



OFFICE OF THE SECRETARY

00 JAN 24 PH 3: 12

FEDERAL ENERGY REGULATORY COMMISSION

January 21, 2000

Mr. David P. Boergers ER00-1215-000 Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Washington, DC 20426

RE: Fitchburg Gas and Electric Light Company Docket No. ER00 - 1215 - COC

Revisions to Open Access Transmission Tariff Rates

Dear Secretary Boergers:

Fitchburg Gas and Electric Light Company ("FG&E" or the "Company"), hereby submits for approval by the Federal Energy Regulatory Commission ("Commission" or the "FERC") changes to its rates under its Open Access Transmission Tariff, FERC Electric Tariff, First Revised Volume No. 4. As explained below, FG&E is submitting two sets of changes, one covering the period beginning March 1, 1998 and ending May 31, 1999 ("Period 1"), and one effective June 1, 1999 and forward ("Period 2"). The Period 1 adjustment reflects a rate reduction of \$508,159 compared to FG&E's currently effective rates. The Period 2 adjustment reflects a rate reduction of \$79,992. These rate changes are a result of the reclassification of FG&E's transmission and distribution facilities approved by FERC and discussed in detail in Section 5 of this filing. Accordingly, FG&E is submitting this filing pursuant to the abbreviated filing requirements in 18 C.F.R. § 35.13 (a) (2) (iii).

In accordance with 18 C.F.R. § 35.13, FG&E submits the following information:

JAN 24 2000

1. <u>List of Documents Submitted</u>

Six copies of the following documents are being submitted for filing:

- This transmittal letter, dated January 21, 2000
- Revised Tariff sheets (Attachment A)
- Redlined Tariff sheets (Attachment B)
- A list of names and addresses of the person to whom this filing has been sent (Attachment C)
- A statement showing the rate calculations (Attachments D and E)

Karen M. Asbury Manager Regulatory Services

6 Liberty Lane West Hampton, NH 03842-1720

Phone: 603-773-6441 Fax: 603-773-6641

000128-0119-1

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 4 of 71

Mr. David P. Boergers November 15, 1999 Page 2

- A form of notice suitable for publication in the Federal Register (Attachment F)
- A table showing the sales and services and revenues from sales and services under the rate schedule to be superseded and under the rate schedule change. (Attachment G)

In addition, an electronic copy of FG&E's revised tariff sheets and a redlined version are enclosed in WordPerfect 6.1 format. A separate diskette containing a copy of the Notice of Filing in WordPerfect 6.1 format is also enclosed.

2. Proposed Effective Date

FG&E requests that the proposed changes for Period 1 be made effective March 1, 1998, and June 1, 1999 for Period 2. FG&E therefore respectfully requests that the Commission waive the 60-day notice requirement in Section 35.3 of the Commission's regulations, 18 C.F.R. § 35.3(a), consistent with its policy of granting waivers of the 60-day notice requirement for rate decreases, New York State Elec. & Gas Coop., 79 FERC ¶ 61,307, at 62,370 (1997); Central Hudson Gas & Elec. Corp. 60 FERC ¶ 61,106, at 61,338, reh'g denied, 61 FERC ¶ 61,089 (1992), and its approval of rate decreases on a retroactive basis, see, e.g., Glen Park Associates Ltd. Partnership, 85 FERC ¶ 61,010, 1998 FERC LEXIS 1948, at \*10 (1998); New York State Elec. & Gas Coop., 79 FERC ¶ 61,307, at 62,370.

Period 1: The following tariff sheets incorporate the rate reductions proposed for effect March 1, 1998 through May 31, 1999:

Third Revised Sheet No. 135, Supersedes Second Revised Sheet No. 135

Third Revised Sheet No. 137, Supersedes Second Revised Sheet No. 137

Third Revised Sheet No. 174, Supersedes Second Revised Sheet No. 174

<u>Period 2:</u> The following tariff sheets incorporate the rate reductions proposed for effect June 1, 1999:

Fourth Revised Sheet No. 135, Supersedes Third Revised Sheet No. 135

Fourth Revised Sheet No. 137, Supersedes Third Revised Sheet No. 137

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 5 of 71

Mr. David P. Boergers November 15, 1999 Page 3

Fourth Revised Sheet No. 174, Supersedes Third Revised Sheet No. 174

Attachment A provides the proposed tariffs. Attachment B provides the redlined versions of the tariffs.

3. Persons to Whom This Filing Has Been Sent
A copy of this filing has been sent to all parties listed on the official
service list in Docket No. OA97-6-000, FG&E's original Open Access
Docket, all parties in Docket No. OA97-635 and customers. This
filing has also been sent to the Massachusetts Department of
Telecommunications and Energy ("MDTE"). See Attachment C.

Description of Filing
 Attachment D provides the supporting documentation for the proposed Period 1 rates. This rate change reflects the Non-I

proposed Period 1 rates. This rate change reflects the Non-Pool Transmission Facilities plant as approved by the MDTE and FERC, as described in Section 5. Statement of Reasons for Change below.

Attachment E provides the supporting documentation for the proposed Period 2 rates. This rate change reflects the non-Pool Transmission Facilities plant effective June 1, 1999, as described in Section 5. Statement of Reasons for Change below. The proposed effective date matches the date that the offsetting Pool Transmission Facilities changes took effect under NEPOOL's Open Access Transmission Tariff.

Both sets of rates were calculated using the same formula that was approved by FERC for Pool Transmission Facilities in New England Power Pool, 88 FERC ¶ 61,140 (1999). FG&E used the same return on equity of 11.50% employed in deriving its current Open Access rates, approved effective May 13, 1997¹. This is also the same return on equity that FG&E includes in its revenue requirement calculation for Pool Transmission Facilities.

As mentioned above, these changes reflect retroactive rate decreases from the rates currently in effect. The changes are summarized as follows:

Annual Transmission Revenue Requirement for Network Integration <u>Transmission Service per Tariff Sheet No. 174:</u>

<sup>&</sup>lt;sup>1</sup> Bangor Hydro Electric Company, Docket No. OA96-191-002, et al.

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 6 of 71

Mr. David P. Boergers November 15, 1999 Page 4

Effective May 13, 1997: \$624, 122

Period 1 Adjustment, March 1, 1998 = (\$508,159) resulting in a revenue requirement of \$115,963

Period 2 Adjustment, June 1, 1999 = (\$79,992) resulting in a revenue requirement of \$544,130

These revenue requirements are used to determine the point-to-point rates set forth on Tariff Sheets No. 135 and 137. <u>See</u> Summary of Rates included as the first page of Attachments D and E.

5. Statement of Reasons for Change
FG&E's Open Access rates currently on file reflect the costs of
FG&E's Non-Pool Transmission Facilities based on 1995 calendar
year data, effective May 13, 1997. These rates are based on 1995
Transmission Plant, as recorded in FERC Form I (\$8,692,112), less
1995 Pool Transmission Facilities plant.<sup>2</sup>

On December 31, 1997, FG&E filed its Electric Restructuring Plan with the MDTE as required by the Act Relative to Restructuring the Electric Utility Industry in the Commonwealth, Regulating the Provision of Electricity and Other Services, and Promoting Enhanced Consumer Protections Therein<sup>3</sup>. As part of that plan, FG&E filed unbundled transmission and distribution rates, which were based upon a reclassification of transmission and distribution facilities in accordance with the FERC's seven-part test contained in FERC Order No. 888. This determination indicated a reclassification of certain Transmission Plant to Distribution Plant, specifically, \$3,475,116 out of total transmission of \$8,692,112, using 1995 data.

FG&E received interim approval of its Restructuring Plan by the MDTE on February 26, 1998, resulting in unbundled transmission and distribution rates effective March 1, 1998<sup>4</sup>. On April 13, 1998, FG&E received MDTE approval of its reclassification<sup>5</sup>. On that same day, the MDTE sent a letter to FERC requesting that FERC grant deference to the MDTE's findings regarding the local distribution

<sup>&</sup>lt;sup>2</sup> Costs associated with FG&E's Pool Transmission Facilities are covered under the NEPOOL Open Access Transmission Tariff.

<sup>&</sup>lt;sup>3</sup> MDTE Docket No. <u>97-115</u> (December 31, 1997).

<sup>&</sup>lt;sup>4</sup> MDTE Docket No. <u>97-115</u> (February 26, 1998).

<sup>&</sup>lt;sup>5</sup> MDTE Docket No. <u>97-93</u> Investigation by the Department into the Classification of Transmission and Distribution Facilities (April 13, 1998).

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 7 of 71

Mr. David P. Boergers November 15, 1999 Page 5

facility classification of each electric company in Massachusetts. On July 29, 1998 in Docket No. EL98-42,000, FERC granted the petition for declaratory order that, on the facts presented, certain facilities, as identified in the pleadings, are State-jurisdictional local distribution facilities and other facilities, as identified in the pleadings, are Commission-jurisdictional transmission facilities, The Massachusetts Department of Telecommunications and Energy, 84 FERC ¶ 61,090 (1998). FG&E received final MDTE approval of its electric restructuring plan on January 15, 1999. The Period 1 rate reduction is necessary so that FG&E's Open Access rates reflect the reclassification of Transmission Plant to Distribution plant as approved by the MDTE effective March 1, 1998 and accepted by FERC.

Effective June 1, 1999, the revenue requirement included in NEPOOL's Open Access Transmission for FG&E's Pool Transmission Facilities was reduced to reflect a reclassification of certain Pool Transmission Facilities to Non-Pool Transmission Facilities. This was due in part to a NEPOOL definitional change of what constitutes Pool Transmission Facilities and in part due to an operational change that caused certain FG&E facilities to no longer qualify as Pool Transmission Facilities. These changes reduced FG&E's Pool Transmission Facilities Plant investment, thereby increasing by the same amount, FG&E's Non-Pool Transmission Facilities revenue requirement was reflected in NEPOOL's Open Access Transmission Tariff effective June 1, 1999. The Period 2 rate reduction is necessary so that FG&E's Open Access rates reflect the appropriate level of Non-Pool Transmission Facilities, as reclassified.

- Showing of Requisite Agreements
   No agreements were necessary to file these changes.
- 7. Costs Adjudged Illegal, Duplicative, or Unnecessary None of the costs reflected in these charges has been alleged or judged in any administrative or judicial proceeding to be illegal, duplicative, or unnecessary costs that are demonstrably the product of discriminatory employment practices.
- 8. Form of Notice Suitable for Publication in the Federal Register
  Attachment F is a draft Notice of Filing suitable for publication in the
  Federal Register.

<sup>&</sup>lt;sup>6</sup> MDTE Docket No. <u>97-115/98-120</u> (January 15, 1999)

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 8 of 71

Mr. David P. Boergers November 15, 1999 Page 6

9. Effect of the Rate Change on Customers
FG&E has one customer currently taking service under its tariff. In
1998 and 1999, FG&E imputed revenues for its own use of its
system. Attachment G is a table showing the sales and services and
revenues from sales and services under the rate schedule to be
superseded and under the rate schedule change. FG&E intends to
issue refunds and file the required refund report by the date
determined by the Commission.

Correspondence or communications with respect to this filing may be addressed to the following persons:

Karen M. Asbury Manager of Regulatory Services Unitil Service Corp. 6 Liberty Lane West Hampton, NH 03842-1720 (603) 773-6441

Andrea J. Chambers
LeBoeuf, Lamb, Greene, & MacRae
1875 Connecticut Avenue, NW
Washington, DC 20009-5728
(202) 986-8000
Attorney for Fitchburg Gas and Electric Light Company

Please date stamp and return the enclosed extra copy of the cover letter to this filing and return to me. Thank you for your attention to this matter.

Sincerely,

Karen M. Asbury Manager Regulatory Services

**Enclosures** 

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 9 of 71



FILEG OFFICE OF THE SECRETARY

00 JAN 24 PM 3: 13

FEDERAL ENERGY REGULATORY COMMISSION

January 21, 2000

Mr. David P. Boergers Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Washington, DC 20426

RE: Fitchburg Gas and Electric Light Company

Docket No. ER00 -

Revisions to Open Access Transmission Tariff Rates

Dear Secretary Boergers:

Fitchburg Gas and Electric Light Company ("FG&E" or the "Company"), hereby submits for approval by the Federal Energy Regulatory Commission ("Commission" or the "FERC") changes to its rates under its Open Access Transmission Tariff, FERC Electric Tariff, First Revised Volume No. 4. As explained below, FG&E is submitting two sets of changes, one covering the period beginning March 1, 1998 and ending May 31, 1999 ("Period 1"), and one effective June 1, 1999 and forward ("Period 2"). The Period 1 adjustment reflects a rate reduction of \$508,159 compared to FG&E's currently effective rates. The Period 2 adjustment reflects a rate reduction of \$79,992. These rate changes are a result of the reclassification of FG&E's transmission and distribution facilities approved by FERC and discussed in detail in Section 5 of this filing. Accordingly, FG&E is submitting this filing pursuant to the abbreviated filing requirements in 18 C.F.R. § 35.13 (a) (2) (iii).

In accordance with 18 C.F.R. § 35.13, FG&E submits the following information:

List of Documents Submitted

Six copies of the following documents are being submitted for filing:

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Karen M. Asbury Manager Regulatory Services

6 Liberty Lane West Hampton, NH 03842-1720

Phone: 603-773-6441 Fax: 603-773-6641 Email:

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 10 of 71

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In addition, an electronic copy of FG&E's revised tariff sheets and a redlined version are enclosed in WordPerfect 6.1 format. A separate diskette containing a copy of the Notice of Filing in WordPerfect 6.1 format is also enclosed.

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DTE 02-24/25 (Electric) Attachment AG-5-7 Page 11 of 71

Mr. David P. Boergers November 15, 1999 Page 3

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filing has also been sent to the Massachusetts Department of
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Attachment D provides the supporting documentation for the proposed Period 1 rates. This rate change reflects the Non-Pool Transmission Facilities plant as approved by the MDTE and FERC, as described in Section 5. Statement of Reasons for Change below.

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DTE 02-24/25 (Electric) Attachment AG-5-7 Page 12 of 71

Mr. David P. Boergers November 15, 1999 Page 4

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 $<sup>^2</sup>$  Costs associated with FG&E's Pool Transmission Facilities are covered under the NEPOOL Open Access Transmission Tariff.

<sup>&</sup>lt;sup>3</sup> MDTE Docket No. <u>97-115</u> (December 31, 1997).

<sup>&</sup>lt;sup>4</sup> MDTE Docket No. <u>97-115</u> (February 26, 1998).

<sup>&</sup>lt;sup>5</sup> MDTE Docket No. <u>97-93</u> Investigation by the Department into the Classification of Transmission and Distribution Facilities (April 13, 1998).

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 13 of 71

Mr. David P. Boergers November 15, 1999 Page 5

facility classification of each electric company in Massachusetts. On July 29, 1998 in Docket No. EL98-42,000, FERC granted the petition for declaratory order that, on the facts presented, certain facilities, as identified in the pleadings, are State-jurisdictional local distribution facilities and other facilities, as identified in the pleadings, are Commission-jurisdictional transmission facilities, The Massachusetts Department of Telecommunications and Energy, 84 FERC ¶ 61,090 (1998). FG&E received final MDTE approval of its electric restructuring plan on January 15, 1999. The Period 1 rate reduction is necessary so that FG&E's Open Access rates reflect the reclassification of Transmission Plant to Distribution plant as approved by the MDTE effective March 1, 1998 and accepted by FERC.

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- Showing of Requisite Agreements
   No agreements were necessary to file these changes.
- 7. Costs Adjudged Illegal, Duplicative, or Unnecessary None of the costs reflected in these charges has been alleged or judged in any administrative or judicial proceeding to be illegal, duplicative, or unnecessary costs that are demonstrably the product of discriminatory employment practices.
- 8. Form of Notice Suitable for Publication in the Federal Register
  Attachment F is a draft Notice of Filing suitable for publication in the Federal Register.

<sup>&</sup>lt;sup>6</sup> MDTE Docket No. <u>97-115/98-120</u> (January 15, 1999)

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 14 of 71

Mr. David P. Boergers November 15, 1999 Page 6

9. Effect of the Rate Change on Customers
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1998 and 1999, FG&E imputed revenues for its own use of its
system. Attachment G is a table showing the sales and services and
revenues from sales and services under the rate schedule to be
superseded and under the rate schedule change. FG&E intends to
issue refunds and file the required refund report by the date
determined by the Commission.

Correspondence or communications with respect to this filing may be addressed to the following persons:

Karen M. Asbury Manager of Regulatory Services Unitil Service Corp. 6 Liberty Lane West Hampton, NH 03842-1720 (603) 773-6441

Andrea J. Chambers LeBoeuf, Lamb, Greene, & MacRae 1875 Connecticut Avenue, NW Washington, DC 20009-5728 (202) 986-8000 Attorney for Fitchburg Gas and Electric Light Company

Please date stamp and return the enclosed extra copy of the cover letter to this filing and return to me. Thank you for your attention to this matter.

Sincerely,

Karen M. Asbury

Manager Regulatory Services

Varen M. asluny

**Enclosures** 

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 15 of 71

OFFICE OF THE SECRETARY

00 JAN 24 PM 3: 13

FEDERAL ENERGY REGULATORY COMMISSION

## Attachment A

**Revised Tariffs** 

Period 1: Effective March 1, 1998

Period 2: Effective June 1, 1999 Fitchburg Gas and
Electric Light Company
Open Access Transmission Tariff

Third Revised Sheet No. 135
Supersedes
Second Revised Sheet No. 135

### SCHEDULE 7

## LONG-TERM FIRM AND SHORT-TERM FIRM POINT-TO-POINT TRANSMISSION SERVICE

The Transmission Customer shall compensate the Transmission Provider each month for Reserved Capacity at the sum of the applicable charges set forth below:

- 1) Yearly delivery: one-twelfth of the demand charge of \$1.567/KW of Reserved Capacity per year.
- 2) Monthly delivery \$0.131/KW of Reserved Capacity per month.
- 3) Weekly delivery \$0.030/KW of Reserved Capacity per week.
- 4) Daily delivery \$0.004/KW of Reserved Capacity per day. The total demand charge in any week, pursuant to a reservation for Daily delivery, shall not exceed the rate specified in section (3) above times the highest amount in kilowatts of Reserved Capacity in any day during such week.
- 5) Discounts: Three principal requirements apply to discounts for transmission service as follows (1) any offer of a discount made by the Transmission Provider must be announced to all Eligible Customers solely by posting on the OASIS, (2) any customer-initiated requests for discounts (including requests for use by one's wholesale merchant or an affiliate's use) must occur solely by posting on the

Effective March 1, 1998

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 17 of 71

Fitchburg Gas and
Electric Light Company
Open Access Transmission Tariff

Third Revised Sheet No. 137 Supersedes Second Sheet No. 137

#### SCHEDULE 8

### NON-FIRM POINT-TO-POINT TRANSMISSION SERVICE

The Transmission Customer shall compensate the Transmission Provider for Non-Firm Point-To-Point Transmission Service up to the sum of the applicable charges set forth below:

- 1) **Monthly delivery**: \$0.098/KW of Reserved Capacity per month.
- 2) Weekly delivery: \$0.023/KW of Reserved Capacity per week.
- 3) Daily delivery: \$0.003/KW of Reserved Capacity per day.

The total demand charge in any week, pursuant to a reservation for Daily delivery, shall not exceed the rate specified in section (2) above times the highest amount in kilowatts of Reserved Capacity in any day during such week.

4) Hourly delivery: The basic charge shall be that agreed upon by the Parties at the time this service is reserved and in no event shall exceed \$0.134/MWH. The total demand charge in any day, pursuant to a reservation for Hourly delivery, shall not exceed the rate specified in section (3) above times the highest amount in kilowatts of Reserved Capacity in any hour during such day. In addition, the total demand charge in any week, pursuant to a reservation for Hourly or Daily delivery, shall not exceed

Effective March 1, 1998

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 18 of 71

Fitchburg Gas and Third Revised Sheet No. 174
Electric Light Company Supersedes
Open Access Transmission Tariff Second Revised Sheet No. 174

### ATTACHMENT H

# ANNUAL TRANSMISSION REVENUE REQUIREMENT FOR NETWORK INTEGRATION TRANSMISSION SERVICE

- The Annual Transmission Revenue Requirement for purposes of the Network Integration Transmission Service shall be \$115,963.
- 2. The amount in (1) shall be effective until amended by the Transmission Provider or modified by the Commission.

Effective March 1, 1998

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 19 of 71

Fitchburg Gas and
Electric Light Company
Open Access Transmission Tariff

Fourth Revised Sheet No. 135 Supersedes Third Revised Sheet No. 135

### SCHEDULE 7

## LONG-TERM FIRM AND SHORT-TERM FIRM POINT-TO-POINT TRANSMISSION SERVICE

The Transmission Customer shall compensate the Transmission Provider each month for Reserved Capacity at the sum of the applicable charges set forth below:

- Yearly delivery: one-twelfth of the demand charge of \$7.353/KW of Reserved Capacity per year.
- 2) Monthly delivery \$0.613/KW of Reserved Capacity per month.
- 3) Weekly delivery \$0.141/KW of Reserved Capacity per week.
- 4) Daily delivery \$0.02/KW of Reserved Capacity per day.

  The total demand charge in any week, pursuant to a

reservation for Daily delivery, shall not exceed the rate specified in section (3) above times the highest amount in kilowatts of Reserved Capacity in any day during such week.

5) Discounts: Three principal requirements apply to discounts for transmission service as follows (1) any offer of a discount made by the Transmission Provider must be announced to all Eligible Customers solely by posting on the OASIS, (2) any customer-initiated requests for discounts (including requests for use by one's wholesale merchant or an affiliate's use) must occur solely by posting on the

Effective June 1, 1999

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 20 of 71

Fitchburg Gas and
Electric Light Company
Open Access Transmission Tariff

Fourth Revised Sheet No. 137
Supersedes
Third Sheet No. 137

#### SCHEDULE 8

### NON-FIRM POINT-TO-POINT TRANSMISSION SERVICE

The Transmission Customer shall compensate the Transmission Provider for Non-Firm Point-To-Point Transmission Service up to the sum of the applicable charges set forth below:

- 1) Monthly delivery: \$0.460/KW of Reserved Capacity per month.
- 2) Weekly delivery: \$0.106/KW of Reserved Capacity per week.
- 3) Daily delivery: \$0.015/KW of Reserved Capacity per day.

The total demand charge in any week, pursuant to a reservation for Daily delivery, shall not exceed the rate specified in section (2) above times the highest amount in kilowatts of Reserved Capacity in any day during such week.

4) Hourly delivery: The basic charge shall be that agreed upon by the Parties at the time this service is reserved and in no event shall exceed \$0.630/MWH. The total demand charge in any day, pursuant to a reservation for Hourly delivery, shall not exceed the rate specified in section (3) above times the highest amount in kilowatts of Reserved Capacity in any hour during such day. In addition, the total demand charge in any week, pursuant to a reservation for Hourly or Daily delivery, shall not exceed

Effective June 1, 1999

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 21 of 71

Fourth Revised Sheet No. 174 Fitchburg Gas and Supersedes Electric Light Company Open Access Transmission Tariff Third Revised Sheet No. 174

### ATTACHMENT H

### ANNUAL TRANSMISSION REVENUE REQUIREMENT FOR NETWORK INTEGRATION TRANSMISSION SERVICE

- The Annual Transmission Revenue Requirement for 1. purposes of the Network Integration Transmission Service shall be \$544,130.
- The amount in (1) shall be effective until amended by 2. the Transmission Provider or modified by the Commission.

Effective June 1, 1999

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 22 of 71

OFFICE OF THE SECRETARY

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FEDERAL ENERGY REGULATORY COMMISSION

## Attachment B

**Redlined Tariffs** 

Period 1: Effective March 1, 1998

Period 2: Effective June 1, 1999

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 23 of 71

Fitchburg Gas and ThirdSecend Revised Sheet No. 135
Electric Light Company Supersedes
Open Access Transmission Tariff SecondFirst Revised Sheet No. 135

### SCHEDULE 7

# LONG-TERM FIRM AND SHORT-TERM FIRM POINT-TO-POINT TRANSMISSION SERVICE

The Transmission Customer shall compensate the Transmission Provider each month for Reserved Capacity at the sum of the applicable charges set forth below:

- 1) Yearly delivery: one-twelfth of the demand charge of \$18.56769/KW of Reserved Capacity per year.
- 2) Monthly delivery \$0.13172/KW of Reserved Capacity per month.
- 3) Weekly delivery \$0.03017/KW of Reserved Capacity per week.
- 4) Daily delivery \$0.0042/KW of Reserved Capacity per day. |
  The total demand charge in any week, pursuant to a
  reservation for Daily delivery, shall not exceed the rate
  specified in section (3) above times the highest amount in
  kilowatts of Reserved Capacity in any day during such week.
- 5) Discounts: Three principal requirements apply to discounts for transmission service as follows (1) any offer of a discount made by the Transmission Provider must be announced to all Eligible Customers solely by posting on the OASIS, (2) any customer-initiated requests for discounts (including requests for use by one's wholesale merchant or an affiliate's use) must occur solely by posting on the

Effective Marchy 13, 19987-

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 24 of 71

Fitchburg Gas and T Electric Light Company Open Access Transmission Tariff

ThirdSecond Revised Sheet No. 137
Supersedes
SecondFirst Sheet No. 137

#### SCHEDULE 8

### NON-FIRM POINT-TO-POINT TRANSMISSION SERVICE

The Transmission Customer shall compensate the

Transmission Provider for Non-Firm Point-To-Point

Transmission Service up to the sum of the applicable charges
set forth below:

- 1) Monthly delivery: \$0.09854/KW of Reserved Capacity per month.
- 2) Weekly delivery: \$0.02\frac{1}{2}3/KW of Reserved Capacity per week.
- 3) Daily delivery: \$0.003⊋/KW of Reserved Capacity per day.

The total demand charge in any week, pursuant to a reservation for Daily delivery, shall not exceed the rate specified in section (2) above times the highest amount in kilowatts of Reserved Capacity in any day during such week.

4) Hourly delivery: The basic charge shall be that agreed upon by the Parties at the time this service is reserved and in no event shall exceed \$0.1374/MWH. The total demand charge in any day, pursuant to a reservation for Hourly delivery, shall not exceed the rate specified in section (3) above times the highest amount in kilowatts of Reserved Capacity in any hour during such day. In addition, the total demand charge in any week, pursuant to a reservation for Hourly or Daily delivery, shall not exceed

Effective Marchy 13, 19987

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 25 of 71

Fitchburg Gas and ThirdSecond Revised Sheet No. 174 |
Electric Light Company Supersedes
Open Access Transmission TariffSecondFirst Revised Sheet No. 174

### ATTACHMENT H

## ANNUAL TRANSMISSION REVENUE REQUIREMENT FOR NETWORK INTEGRATION TRANSMISSION SERVICE

- The Annual Transmission Revenue Requirement for purposes of the Network Integration Transmission Service shall be \$115,963624,122.
- The amount in (1) shall be effective until amended by the Transmission Provider or modified by the Commission.

Effective Marchy 13, 19987

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 26 of 71

Fitchburg Gas and FourthThird Revised Sheet No. 135
Electric Light Company Supersedes
Open Access Transmission Tariff ThirdSecond Revised Sheet No. 135

#### SCHEDULE 7

## LONG-TERM FIRM AND SHORT-TERM FIRM POINT-TO-POINT TRANSMISSION SERVICE

The Transmission Customer shall compensate the Transmission Provider each month for Reserved Capacity at the sum of the applicable charges set forth below:

- 1) Yearly delivery: one-twelfth of the demand charge of \$78.35369/KW of Reserved Capacity per year.
- 2) Monthly delivery \$0.61372/KW of Reserved Capacity per month.
- 3) Weekly delivery 0.1417/KW of Reserved Capacity per week.
- 4) Daily delivery \$0.02/KW of Reserved Capacity per day. The total demand charge in any week, pursuant to a reservation for Daily delivery, shall not exceed the rate specified in section (3) above times the highest amount in kilowatts of Reserved Capacity in any day during such week.
- 5) Discounts: Three principal requirements apply to discounts for transmission service as follows (1) any offer of a discount made by the Transmission Provider must be announced to all Eligible Customers solely by posting on the OASIS, (2) any customer-initiated requests for discounts (including requests for use by one's wholesale merchant or an affiliate's use) must occur solely by posting on the

Effective JuneMay 13, 19997-

Fitchburg Gas and Fitchburg Gas and Electric Light Company
Open Access Transmission Tariff

FourthThird Revised Sheet No. 137
Supersedes
ThirdSecond Sheet No. 137

#### SCHEDULE 8

## NON-FIRM POINT-TO-POINT TRANSMISSION SERVICE

The Transmission Customer shall compensate the Transmission Provider for Non-Firm Point-To-Point Transmission Service up to the sum of the applicable charges set forth below:

- 1) Monthly delivery: \$0.46054/KW of Reserved Capacity per month.
- 2) Weekly delivery: \$0.1063-/KW of Reserved Capacity per week.
- 3) Daily delivery: \$0.0152/KW of Reserved Capacity per day.

The total demand charge in any week, pursuant to a reservation for Daily delivery, shall not exceed the rate specified in section (2) above times the highest amount in kilowatts of Reserved Capacity in any day during such week.

4) Hourly delivery: The basic charge shall be that agreed upon by the Parties at the time this service is reserved and in no event shall exceed \$0.63074/MWH. The total demand charge in any day, pursuant to a reservation for Hourly delivery, shall not exceed the rate specified in section (3) above times the highest amount in kilowatts of Reserved Capacity in any hour during such day. In addition, the total demand charge in any week, pursuant to a reservation for Hourly or Daily delivery, shall not exceed

Effective JuneMay 13, 19997

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 28 of 71

Fitchburg Gas and FourthThird Revised Sheet No. 174 |
Electric Light Company Supersedes
Open Access Transmission TariffThirdSecond Revised Sheet No. 174

### ATTACHMENT H

# ANNUAL TRANSMISSION REVENUE REQUIREMENT FOR NETWORK INTEGRATION TRANSMISSION SERVICE

- The Annual Transmission Revenue Requirement for purposes of the Network Integration Transmission Service shall be \$544,130624,122.
- The amount in (1) shall be effective until amended by the Transmission Provider or modified by the Commission.

Effective JuneMay 13, 19997

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 29 of 71

OFFICE OF THE SECRETARY

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FEDERAL ENERGY

REGULATORY

COMMISSION

## Attachment C

List of names and addresses

Of persons to whom

This filing has been sent

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 30 of 71

### Fitchburg Gas and Electric Light Company Service List

## Service List for OA97-6-000

Customers

Kathryn L. Patton, Esquire Dynegy Power Marketing, Inc. (TX) 1000 Louisiana Suite 5800 Houston, TX 77002-5050 Eric Hegaseth Tractabel Power Inc. 1177 West Loop South, 3<sup>rd</sup> Floor Houston, TX 77207

Peter G. Esposito, Esquire Dynegy Power Marketing, Inc. (DC) 805 15<sup>th</sup> Street, N.W. Suite 510-A Washington, DC 20005-2207

Mr. Joseph R. Hartsoe Enron Corp. (DC) 1775 Eye Street, N.W. Suite 800 Washington, DC 20006-4607

Sam R. Hananel, Esquire Bracewell & Patterson, L.L.P. (DC) Suite 500 2000 K Street, N. W. Washington, DC 20006-1872

Andrea J. Chambers, Esquire LeBeouf, Lamb, Greene & MacRae, L.L.P.(DC) Suite 1200 1875 Connecticut Avenue, N.W. Washington, DC 20009-5728

## Service List for OA97-635

Sanford L. Hartman, Esquire PG&E Generating Company (MD) 7500 Old Georgetown Road Suite 1300 Bethesda, MD 201814-6161

Gretchen Schott, Esquire Dickstein, Shapiro, Morin & Oshinsky, L.L.P. 2101 L Street, N.W. Washington, DC 20037-1526

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 31 of 71

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Attachment D

**Cost Support** 

For Proposed Rates

Period 1: Effective March 1, 1998

Summary of Rates Fitchburg Gas and Electric Light Company Summary of Transmission Open Access Rates	Proposed         Proposed           Period 1         Period 2           1-Mar-98         1-Jun-99           \$624,122         \$624,122           \$115,963         \$544,130           Attachment D and E, Workpaper 1 of 8           \$508,159         \$79,992	74,000	\$1.567 \$7.353 Revenue Requirement / Peak Load \$0.131 \$0.613 Annual Charge / 12 \$0.030 \$0.141 Annual Charge / 52 \$0.004 \$0.020 Annual Charge / 365	\$0.098 \$0.460 Firm Pt to Pt Charge * 75% \$0.023 \$0.106 Firm Pt to Pt Charge * 75% \$0.000 \$0.0
Fitchbun Summary	Current Revenue Requirement Proposed Revenue Requirement Decrease in Revenue Requirement	FG&E Peak Load CP of All Firm Point-to-Point Contract Demand Reservation for Firm Pt-Pt Total	Schedule 7: Firm Point-to-Point Annual Charge \$/kW Monthly Charge \$/kW Weekly Charge \$/kW Daily Charge \$/kW	Schedule 8: Non-Firm Point-to-Point * Monthly Charge \$kW Weekly Charge \$kW

\* Rates reflect a 25% discount off the Firm Point-to-Point rates

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 33 of 71

	Sheet Worksheet 1	ī		Fitchburg Gas and Electric Light Company Annual Revenue Requirements of Non-PTF Facilities for costs in 1997	ric Light Company s of Non-PTF Facilities 1997	MOD-FTF KANNING KALUMUNTE HOLINAM 1 of 8
INVESTMENT BASE	õ	nading denotes an input	Tariff	1		
INVESTMENT BASE			Reference	FGRE	Total	Reference
Transmission Plant	2	INVESTMENT BASE	Section:			A company of social Company of the C
Accountained Depart   Accountained Device		Transmission Plant	(A)(1)(a)	902,807	902,807	Modern Common
Part Held For Future Use	- r	Constant Plant	(A)(1)(b)	1,430	1,430	POTASSIBATE A COLUMN S
Trait Plant Lines 1-2-3   904,275   904,275	4 6	Self-self-fill for the self-self-self-self-self-self-self-self-	(A)(1)(c)	38	8	Worksheet 5, and 4 continue 5
Accommutated Depreciation   (A/(1)(d)   384,724   384,724     Accommutated Deferred Income Taxes	) <del>4</del>	Total Plant (Lines 1+2+3)		904,275	904,275	
Accumulated Description (A/(1)(a) 384,124  Accumulated Description (A/(1)(b) 157,700  Loss On Recquired Description  Other Required Description  Other Required Description  Net Investment (Line 4-5-7-4)  II. REVENUE RECQUIREMENTS  III. REVENUE REVENUE REVENUE RECALLANCE  III. REVENUE REVENUE REVENUE REQUIREMENTS  III. REVENUE REQUIREMEN					104 TO	Worksheet 3, line 7 column 5
Case No Preservative Communicated Detect	ß	Accumulated Depreciation	(A)(1)(d)	384,724	457.700	Worksheet 3 line 10 column 5. Changed Formula to +, not-
Leas On Rescoluted Dekt	ဖ	Accumulated Deferred Income Taxes	(A)(1)(e)	157,700	3	Worksheet 3, line 11 column 5
Next Investment (Investment	^	Loss On Rescoulred Debt	(A)(1)(1)		84 770	Worksheet 3, line 14 column 5
Net Investment (line 4-5-7-4)	ø	Other Regulatory Assets	(A)(1)(g)	61,770	21/10	
SEVENUE REQUIREMENTS	თ	Net Investment (Line 4-5-6+7+8)		423,621	. NO.CO.	
National State   Nati			(4)(1)(h)	3,586	3,586	Worksheet 3, line 15 column 5
National State   Although   Alt	2	Prepayments	(1)(1)(1)	1 530	1.530	Worksheet 3, line 16 column 5
Cash Working Capital (A)(1)(1) 4,21,427	Ξ	Materials & Supplies	(A)(T)(C)	000,	2 690	Worksheet 3, line 23 column 5
II. REVENUE REQUIREMENTS	7	Cash Worlding Capital	(¥)(4)(§	7,090		
I. REVENUE REQUIREMENTS   A	5	Total Investment Base (Line 9+10+11+12)		431,427	431,427	
REVENUE REQUIREMENTS						
I. REVENUE RECOUREMENTS						
Investment Return and Income Taxes	=		;	Ş	57 153	Worksheet 2
Depreciation Expense         (9)         24,128         24,128           Amorization of Loss on Reacquired Debt         (C)         (704)         (704)           Investment Tax Credit         (E)         (704)         (704)           Property Tax Expense         (F)         228         13,641           Percent Tax Expense         (F)         228         16,655           Administrative Expense         (H)         4,862         4,862           Administrative Expense         (H)         0         0           Transmission Retried Integrated Facilities Charge         (H)         0         0           Transmission Support Expense         (H)         0         0           Transmission Retried Expense from Generators         (H)         0         0           Transmission Retried Taxes and Fees Charge         (M)         0         0           Transmission Retried Taxes and Fees Charge         (M)         0         0           Transmission Retried Taxes and Fees Charge         (M)         0         0           Transmission Retrieved from Electric Property         (O)         0         0           Transmission Retrieved from Electric Property         (O)         0         0           Transmission Requirements (Line 14 l	7	investment Return and Income Taxes	€	SCI //C	32,128	Worksheet 4 line 3 column 5
Amortization of Loss on Reacquired Debt	15	Depreciation Expense	<b>6</b> )	24,128	071,47	Worksheet 4 line 4 column 5
Investment Tax Credit	18	Amortization of Loss on Reacquired Debt	છે	0	9 CF	Workshop A line 5 column 5
Property Tax Expense	17	investment Tax Credit	<u>e</u>	(704)	13 641	Worksheet 4, line 8 column 5
Payroli Tax Expense         (F)         228         16,655           Operation & Maintenance Expense         (G)         16,655         16,655           Administrative & General Expense         (H)         4,862         4,862           Administrative & General Expense         (I)         0         0           Transmission Related Integrated Facilities Charge         (I)         0         0           Transmission Support Expense         (K)         0         0           Transmission Related Expense from Generators         (L)         0         0           Transmission Related Expense from Generators         (L)         0         0           Transmission Related Expense from Generators         (M)         0         0           Revenue for ST Trans. Service Under NEPOOL Tariff         (N)         0         0           Transmission Rents Received from Electric Property         (C)         0         0           Total Revenue Requirements (Line 14 linu 28)         115,963         115,963	8	Property Tax Expense	Œ)	13,641	10°C	Worksheet 4 fine 17 column 5
Operation & Maintenance Expense         (G)         16,000         1,000           Administrative & General Expense         (H)         4,862         4,862           Administrative & General Expense         (I)         0         0           Transmission Related Integrated Facilities Charge         (I)         0         0           Transmission Support Expense         (K)         0         0           Transmission Related Expense from Generators         (L)         0         0           Transmission Related Expense from Generators         (M)         0         0           Transmission Related Expense from Electric Property         (O)         0         0           Transmission Rents Received from Electric Property         (O)         0         0           Total Revenue Requirements (Line 14 linu 28)         115,963         115,963	19	Payroll Tax Expense	Œ	228	2.20 18.855	Worksheet 4, line 13 column 5
Administrative & General Expense (H) 4,882 4,882  Transmission Related Integrated Facilities Charge (I) 0  Transmission Support Revenue (I) 0  Transmission Related Expense from Generators (I) 0  Transmission Related Expense from Generators (I) 0  Transmission Related Expense from Generators (M) 0  Transmission Related Expense from Generators (M) 0  Transmission Related Taxes and Fees Charge (M) 0  Transmission Related Taxes and Fees Charge (M) 0  Transmission Rents Received from Electric Property (O) 0  Total Revenue Requirements (Line 14 linu 28) 115,963	8	Operation & Maintenance Expense	<u>©</u>	18,655	4 983	Worksheef 4 line 16 column 5
Transmission Related Integrated Facilities Charge	21	Administrative & General Expense	£	4,862	700/1	Worksheet 7
Transmission Support Revenue   (J)   0   0   0     Transmission Support Expense   (K)   0   0   0     Transmission Related Expense from Generators   (L)   0   0   0     Transmission Related Taxes and Fees Charge   (M)   0   0   0     Transmission Reris Received from Electric Property   (O)   0   0   0   0   0     Transmission Rents Received from Electric Property   (D)   0   0   0   0   0   0   0   0   0	22	Transmission Related Integrated Facilities Charge	€	0		Worksheet
Transmission Support Expense (K) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23	Transmission Support Revenue	<b>3</b>	ο :		Worksheet
Transmission Related Expense from Generators (L) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24	Transmission Support Expense	\$	0 1		Worksheet 7
Transmission Related Taxes and Fees Charge (M) 0 Revenue for ST Trans. Service Under NEPOOL Tariff (N) 0 Transmission Rents Received from Electric Property (O) 0 Total Revenue Requirements (Line 14 lihru 28) 115,963	92	Transmission Related Expense from Generators	3	ο :	<b>.</b>	
Revenue for ST Trains. Service Under NEPOOL Tariff (N) 0 Transmission Rents Received from Electric Property (O) 0 Transmission Rents Received from Electric Property (O) 115,963 Total Revenue Requirements (Line 14 thru 28) 115,963	82	Transmission Related Taxes and Fees Charge	Œ	0 (	<b>.</b>	
Transmission Rents Received from Electric Property (O) 0  Total Revenue Requirements (Line 14 thru 28) 115,963	27	Revenue for ST Trans, Service Under NEPOOL Tariff	Ê	0	· •	
Total Revenue Requirements (Line 14 lhru 28)	78	Transmission Rents Received from Electric Property	<u>0</u>	0		
	ģ	Total Revenue Requirements (Line 14 thru 28)		115,963	115,963	
	}					

DTE 02-24/25 (Electric) Attachment AG-5-7

	<u> </u>		·	Page 34 of 71
Non-PTF Revenue Requiements Watsheed 2 of 6	COST OF EQUITY  3.48%  0.22%  5.87%  9.57%  6.09%	State Income Tax Rate	2007	
	COST OF CAPITAL 7.80% 6.90% 11.50%			
	CAPITALIZATION RATIOS 45.76% 3.23% 51.01%	Federa Fec State	- 0.065	
Fitchburg Gas and Electric Light Company Annual Revence Requirements for costs in 1997		b b	(704) + 0 ) / 431,427 )	From Worksheet 1 To Worksheet 1
<del>- 13</del>	CAPITALIZATION 12/31/877 \$ 34,000,000 2,400,886 37,907,005 \$ 74,307,921	( R.O.E. + ( 0.0305321	( 0.0609 +( 1 1 0.0062428 0.1324749	(Non-PTF) s 431,427 0.1324749 57,153
Sheet: Worksheet 2 Shading denotes an input	LONG-TERM DEBT PREFERRED STOCK COMMON EQUITY TOTAL INVESTMENT RETURN 'See Workpaper 2 Cost of Capital Rate* (a) Weighted Cost of Capital Rate*	(b) Federal income Tax a	(a)+(b)+(c) Cost of Capital Rate =	INVESTMENT BASE  x Cost of Capital Rate  = Investment Return and Income Taxes

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 35 of 71

			Fitchb	Fitchburg Gas and Electric Light Company	tric Light Cor	врапу	Non-PTF Revenue Requirements Worksheet 3 of 8
Sheet V	Sheet Worksheet 3						
	Shading denotes an input		(5)	•	(4)	(*/*(6) = (9)	
<u>E</u> 2		(1) Total	Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	Allocation Factor (b)	(5) = (5) (4) Non-PTF Allocated	FERC Form 1 Reference for col (1)
- 78	Transmission Plant Transmission Plant General Plant Total (line 1+2)	9,443,402	1,4959% (a)	9,443,402 14,959 9,458,361	9.5602%	902,807 1,430 904,237	Line 1, Worksheet 5 Page 207.83g
4	Transmission Plant Held for Future Use	400		400	9.5602%	38	Page 214
V 0 V	Transmission Accumulated Depreciation Transmission Accum. Depreciation General Plant Accum. Depreciation Total (line 5+6)	4,011,976 818,552	1,4959% (a)	4,011,976 12,245 4,024,221	9.5602% 9.5602%	383,553 1,171 384,724	Page 219.23b Page 219.25b
800	Transmission Accumulated Deferred Taxes Accumulated Deferred Taxes (281-283) Accumulated Deferred Taxes (190) Total (line 8+9)	12,572,792 350,287	13.4959% (c) 13.4959% (c)	) 1,696,811 47,274 1,744,085	9.5602% 9.5602%	162,219 4,519 157,700	Page 275.2k + 277.9k (d) Page 234.8c (d) Changed Formula
-	Transmission loss on Reacquired Debt	0	13.4959% (c)	0 (	9.5602%	0	Page 111.65d
5 5 4 5	Other Regulatory Assets FAS 106 FAS 109 Other Regulatory Liabilities (254.DK) Total (line 12+13+14)	4,787,494 0 0 4,787,494	1.4959% (a) 13.4959% (c) 13.4959% (c)	0 () 646,115 () 646,115	9.5602% 9.5602% 9.5602%	0 61,770 0 61,770	Page 232.30e Page 233.1f - 269.1f (d)
16	Transmission Prepayments	2,507,725	1.4959% (a)	) 37,513	9.5602%	3,586	Page 110.46d*p.200.8.c/p.200.8.b
17	Transmission Materials and Supplies	16,001		16,001	9.5602%	1,530	Page 227.8c
≈ € 8 2 8 2 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Cash Working Capital Operation & Maintenance Expense Administrative & General Expense Transmission Support Expense Subtotal (line 19+20+21) Total (line 22 * line 23)					16,655 4,862 0 21,517 0,125 2,690	Worksheet 1, Line 20 Worksheet 1, Line 21 Worksheet 1, Line 24 × 45 / 360
	(a) Worksheet 5 of 8, line 11 (b) Worksheet 5 of 8, line 3 (c) Worksheet 5 of 8, line 16 (d) Electric Only (Gas Portion Removed)						

			Fitchb	Fitchburg Gas and Electric Light Company	ctric Light Co		Non-PTF Revenue Requirements Worksheet 4 of 8
Sheet: V	Sheet: Worksheet 4		Q		<b>4</b> )		
	Shading denotes an input						
<u>\$</u> 3		(t) Total	Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	Non-PTF Allocation Factor (b)	(5) = (3)*(4) Non-PTF Allocated	FERC Form 1 Reference for col (1)
- 46	<u>Degreciation Expensa</u> Tanamission Depreciation General Depreciation Total (line 1+2)	251.274 74.291	1.4959% (a)	251,274 1,111 252,385	9.5602% 9.5602%	24,022 108 24,128	Page 336.7b Page 336.9b
4	Amortization of Loss on Rescquired Debt	•	13.4959% (c)	0	9.5602%	0	Page 117.58c Page 258 8f
un (	Amortization of Investment Tax Credits Property Taxes	54,533	13.4959% (c)	142,688	9.5602%	13,841	Page 2621-2631 (e)
ω ~ ∞	Transmasson Property Taxes General Property Taxes Total (line 6+7)	O	1,4959% (a)	11	9.5602%	13,61	Page 262-263
ø 5 ± ;	Transmission Operation and Maintenance Operation and Maintenance operation and Maintenance Transmission of Electricity by Others - 1888 100 Operation Francisco Company & Sentra - 1881 (1981)	2,192,765 2,018,555 0		2,192,765 2,018,555 0	0.095602 0.095602 0.095602	209,633 192,978 0	Page 321.100b Page 321.88b Page 321.84b Page 321.85b & .90b
<del>7</del> £	O&M less lines 10, 11 & 12	174,210		174,210	9.5802%	16,655	
255	Transmission Administrative and General Administrative and General ses Property Insuemo 824	2,953,211 62,981					Page 323.188b Page 323.156b Page 350
5 7 8	bass departed from the continues of Expense (#000.1) Suchocal (fine 14 minus (15 thru 17))	7,008		4	9.5602%	4,037	Page 323.162b
2 2 2		62,981 907 0	13.4959% (c) 13.4959% (c) 13.4959% (c)		9.5602% 9.5602% 9.5602%	12 0	
នេះ	و د	2,886,875	1,4959% (a)	2,387	9.5602%	4,802	Footnote (d)
53	Payron Lax Expense						

Total

(a) Electric Only (Gas Portion Removed)

\*\* Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 37 of 71

Non-PTF Revenue Requirements Worksheet 5 of 8	FERC Form 1 Reference	Workpaper 1 -Summary Page 207.53g		Page 354.19b Worksheet 6 of 8	Page 354.25b + Line 5 Page 354.24b Worksheet 6 of 8	Page 207.53g Worksheet 3, Line 2 Page 207.88g	
		FG&E 902,807 9,443,402	8.5602%	21,959 0 21,959	1,595,131 127,200 0 1,467,931 1.4959%	9,443,402 14,959 9,458,361 70,083,144	13.4959%
Sheet: Worksheet 5	Shading denotes an input	Non - PTF Transmission Plant Allocation Factor Non - PTF Transmission Investment Total Transmission Investment	3 Percent Allocation (Line 1/Line 2)	Transmission Wages and Salaries Allocation Factor  Direct Transmission Wages and Salaries  Affiliated Company Transmission Wages and Salaries  Total Transmission Wages and Salaries (Line 4 + Line 5)	Total Wages and Salaries  Administrative and General Wages and Salaries  Affiliated Company Wages and Salaries less A&G  Total Wages and Salaries net of A&G (Line 7 - 8 + 9)  Percent Allocation (Line 6/Line 10)	Plant Allocation Factor  Total Transmission Investment  plus Transmission-Related General Plant (Line 2 of Wkst. 3)  Revised Numerator (Line 12 + Line 13)	
Sheet:	Line	- 0	ო	4 W Q	7 8 8 10 T	55.55 £	16

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Non-PTF Revenue Requirements Worksheet 6 of 8

Sheet: Worksheet 6

# Affiliated Company Wages and Salaries

Shading denotes an input

Line		FG&E
"Affiliated" Transi #560 - 573	mission Wages and Salaries	
1	560	, 1941 - 12 <b>0</b>
2	562	0
3	564	0
4	566	0
5	568	0
6	569	0
7	570	0
8	571	0
9	572	0
10	573	0
11 = 1 thru 10	Total Transmission	0
	iliated" Wages and Salaries  Administrative and General Salaries	
#320 - 500		
13	920	0
14	921	0
15	923	o
16	925	0
17	926	0
18	928	0
19	930	0
20	935	<u> </u>
21 = 13 thru 20		0
22 = 12 less 21	Total "Affiliated" less A&G	0

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Non-PTF Revenue Requirements Worksheet 7 of 8

Not apprical Input Revent	Not applicable to rotal an object of the PTF Supporting Facilities in columns (a) and expenses associated input Revenues associated with the PTF Supporting Facilities in columns (b). The totals are then finited to Worksheet 1, Lines 23 and 24, with the facilities in columns (b). The totals are then finited to Worksheet 1, Lines 23 and 24.	s in columns o Worksheet	(a) and expert, I, Lines 23 ar	rses associated of 24.		
		FG&E	ų,	TOTAL	AL	
Participant	PTF Supporting Facilities	Revenues (a)	Expenses (b)	Revenues (a)	Expenses (b)	
BECO	345 kV Sherman - Medway 336 line					
	115 kV Somerville 402 Substation					_
	115/345 kV North Cambridge 509 Substation					_
	345 kV Golden Hills -Mystic 389 (x&y) line					_
	West Medway 345 kV breaker					-
	115 kV Millbury-Medway 201 line				0	_
	HQ Phase II - AC in MA	0	0	2	>	_
	345 kV "stabilizer" 342 line					-
	345 kV Walpole - Medway 325 line					7
	345 kV Carver - Walpola 331 line					_
	345 kV Jordan Rd - Canal 342 line					_
						7
CEC	Second Canal line					_
	345 kV Pilgrim-Bridgewater - 355 line					_
	345 kV Myles Standish - Canal 342 line					
						_
gWD	345 kV Buxton-South Gorham 388 line					$\neg$
<u>.</u>	115 kV Wyman 164-167 lines					_
	115 kV Maine Yankee transmission					$\neg r$
EUA	345 kV Carver - Walpole 331 line					$-\Gamma$
	345 kV Medway - Bridgewater 344 Line					
	Northern Rhode (stand transmission					- 1
						4
NEP	Chester SVC					- {
	Comerford 115 kV Substation					- 1
	345 kV Sandy-Tewksbury 337 line					- 1
	345 kV Tewksbury-Woburn 338 line					- 1
	115 kV Tewksbury - Woburn M139 line					- 1
	115 kV Tewksbury - Woburn N140 line					4
,-	Moore 115 kV Substation		ľ			1-
	HQ Phase II - AC in MA	٥	2		2	- 1
	345 kV Golden Hills-Mystic 349 line					1
	345 KV NH/MA border-Tewksbury 394 line					- 1
	115 tV Read - Washington V148 line					- 1
_						
≥	345 kV 363, 369 and 394 Seabrook lines					•
	Fairmont 115 kV Substation					ı
	345 kV Millstone-Manchester 310 line					- 1
	Ul Substations					- 1
	Black Pond					10
	Total	٥				٠ı

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 21, Column 5)

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Workpaper 8 of 8 **DEC '97** 22 19:00 LNS Rate Annual FG&E System Average 12 CP Load **26, AON** 25 18:00 OCT '97 Summary of Fitchburg Gas and Electric Light Company System SEP '97 70 AUG '97 11 17:00 Monthly Coincident Peaks for 1997 JUL '97 15 12:00 (Megawatts) APR '97 MAY '97 JUN '97 28 11:00 99 6 18:00 8 20:00 MAR '97 14 19:00 Shading denotes an input FEB '97 19 '97 8 18:00 Sheet: Worksheet 8

FG&E

NOTE: Numbers represent FERC Form 1 Pages 401/401A coincident peaks.

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Workpaper 1 - Summary For Rates Effective March 1, 1998

Total Transmission Plant	12/31/97 Balances \$ 5,815,064	Detail of Transmission Plant (per FERC's Seven Part T&D Facility Test), Page 4 of
Less: Transmission Plant (Joint Owned Units) (1) \$ 138,492 Pool Transmission Facilities Plant \$ 4,773,765	\$ 138,492 \$ 4,773,765	Detail of Transmission Plant (per FERC's Seven Part T&D Facility Test), Page 4 of Detail of PTF Transmission Plant
Non-Pool Transmission Facilities Plant	\$ 902,807	

(1) External to FG&E Transmission System

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# Workpaper 1 Detail of Transmission Plant as of 12/31/97 (Per FERC's Seven Part T&D Facility Test)

					7-1-1 Pt1	Tenanminaian	Tennemission
		Occasiotion	Amount	Amount Retired	Total Plant Balance	Transmission Percent	Transmission Plant Balance
Category	Account	<u>Description</u>	<u>Added</u>	Tremes	DD-001-00		
Flegg Pond			e4 373 305 40	\$0.00	\$1,272,305.18	100%	\$1,272,305.18
	353	Purchased from New England Power on 6/1/77 Transfer acquisition costs to acct 2-353-99	\$1,272,305.18 (\$84,274.29)	\$0.00	(\$84,274.29)	100%	(\$84,274.29)
	353 353	Retire 2 600 amp OCB plus installation	\$0.00	\$21,975.62	(\$21,975.62)	100%	(\$21,975.62)
	353	Install 115kv breaker status for REMVEC	\$14,556.40	\$0.00	\$14,556.40	100%	\$14,556.40
	353	See F-2172	\$937,758.94	\$12,809.54	\$924,949.40	100% 100%	\$924,949.40 \$2,938.12
	353	Install 2 1000w Lucalox Floodlights near control shack	\$2,938.12 \$21,174.57	\$0,00 \$0,00	\$2,938.12 \$21,174.57	100%	\$21,174.57
	353 363	Install Potential Transformers Retire PT	\$0.00	\$4,628.41	(\$4,628.41)	100%	(\$4,628.41)
	353 353	Metering	\$41,916.83	\$0.00	\$41,916.83	100%	\$41,916.83
	353	Install #27 & #28 airbreak switch on #2 Feeder	\$17,310.44	\$0.00	\$17,310.44	100%	\$17,310.44
	353	Retire #27 & #28 airbreak switch on #2 Feeder	\$0.00	\$5,762.36 \$0.00	(\$5,762.36) \$183.25	100% 100%	(\$5,762.36) \$183.25
	353	Adjust to above entry Install PT on 02 Line	\$183.25 \$8,435.83	\$0.00	\$8,435.83	100%	\$8,435.83
	353 353	Retire PT on 02 Line	\$0.00	\$21,174.57	(\$21,174.57)	100%	(\$21,174.57)
	353	Install 2016 of 4/0 st bare copper	\$1,868.89	\$0.00	\$1,868.89	100%	\$1,868.89
	353	Install 50° of 2° PVC Pipe	\$4,033.47 \$0.00	\$0.00 \$1,198.75	\$4,033.47 (\$1,198.75)	100% 100%	\$4,033.47 (\$1,196.75)
	353	785' of 4/0 st 600 volt 50' of 4/0 wire	\$0.00	\$31.55	(\$31.55)	100%	(\$31.55)
	353 353	760' of 4/0 hard drawn wire	\$0.00	\$1,310.88	(\$1,310.88)	100%	(\$1,310.88)
	353	50° of 4/0 wire	\$0.00	\$106.74	(\$106.74)	100%	(\$106.74)
	353	965' of 4/0 wire	\$0.00 \$0.00	\$2,876,75 \$164,50	(\$2,876.75) (\$164.50)	100% 100%	(\$2,876.75) (\$164.50)
	353	50' of 2" PVC Pipe GE 69kv Bushing in OCB s/n 0139A4928-201	\$0.00 \$0.00	\$14,231.56	(\$14,231.56)	100%	(\$14,231.56)
	353 353	69kv 1200amp bushing in OCB	\$2,405.57	\$0.00	\$2,405.57	100%	\$2,405.57
	353	Data Star Recorders	\$3,780.00	\$0.00	\$3,780.00	100%	\$3,760.00
	353	Installed Data Star Recorder Software Level #2	\$750.00	\$0.00 \$0.00	\$750.00 \$1,014.38	100% 100%	\$750.00 \$1,014.38
	353	Payroll & overheads for above install	\$1,014.38 \$0.00	\$5,300.00	(\$5,300.00)		(\$5,300.00)
	353 353	Recorder Tape System GE Universal Mag Tape Cartridges	\$0.00	\$637.20	(\$637.20)		(\$637.20)
	353	WattWar Transducer	\$5,950.00	\$0.00	\$5,950.00	100%	\$5,950.00
	353	Vollt Transducer	\$185.00	\$0,00	\$185.00 \$34.92	100% 100%	\$185.00 \$34.92
	353	Shipping & Handling	\$34.92 \$1,142.10	\$0.00 \$0.00	\$1,142.10	100%	\$1,142.10
	353 353	500' 4/C #12 AWG Control Cable 50' 1/2 watt precision reistors	\$41.39	\$0.00	\$41.39	100%	\$41.39
	353	350' T&B Stakon Terminals	\$86.45	\$0.00	\$86.45	100%	\$86.45
	353	69' Copper Wire	\$10.35 \$17.55	\$0.00 \$0.00	\$10.35 \$17.55	100% 100%	\$10.35 \$17.55
	353 353	Cable Tie Misc Parts	\$52.76	\$0.00	\$52.76	100%	\$52.76
	353	Labor for fixing recorder	\$368.80	\$0.00	\$368.80	100%	\$368.80
	<b>3</b> 53	Labor for wiring	\$124.20 \$422.24	\$0.00 \$0,00	\$124.20 \$422.31	100% 100%	\$124.20 \$422.31
	353	Install GETEC Telemetering to REMVAC (Liabilities)	\$422.31 \$6,638.54	\$0.00	\$6,638.54	100%	\$6,638.54
	353 353	Overheads Payroll	\$8,030.61	\$0.00	\$8,030.61	100%	\$8,030.61
	353	Bristol DPC 333010A computer	\$4,230.71	\$0.00	\$4,230.71	100%	\$4,230.71
	353	Bristol SLC 371140A Recorders	\$5,771.41	\$0.00 \$0.00	\$5,771.41 \$515.05	100% 100%	\$5,771.41 \$515.05
	353	Bristol Power Supply	\$515.05 \$2,355.00	\$0.00	\$2,355.00		\$2,355.00
	353 353	Labor to set up Bristol Spare Interrupter Assembly for 115kv Circuit breaker	\$9,512.00	\$0.00	\$9,512.00		\$9,512.00
	353	Retire Westinghouse auto transformer	\$0.00	\$152,101.77	(\$152,101.77)		(\$152,101.77)
	353	Redison Rewind & Rebuild 30/40/50 MVA West,	\$0.00 \$514,480.75	\$0.00 \$0.00	\$0.00 \$514,480.75		\$0.00 \$514,480.75
	353 353	Auto Transformer s/n 34891 includes all charges Purch used Auto Transformer 24/40 mva Magnitek	\$200,032.04	\$0.00	\$200,032.04		\$200,032.04
	353	For future costs assoc, w/ additions 69kv connections	(\$97,766.02)	\$0.00	(\$97,766.02		(\$97,766.02)
	353	Fused Disconnect	\$0.00	\$505.26	(\$505.26		(\$505.26) \$434.21
	353	Replace Fused Disconnect Install & purch EM-GRO Air Compressor	\$434.21 \$1,273.97	\$0,00 \$0,00	\$434.21 \$1,273.97		\$1,273.97
	353 353	Install Deadend Structure 3-arrestors & 6-bushings	\$30,233.66	\$0.00	\$30,233.66	100%	\$30,233.66
	353	Construct 115 Kv facilities & connect spare transformer	\$0.00	\$0.00	\$0.00		\$0.00
	353	in place of failed #1 autotrans.	\$237,601.84 \$0.00	\$0.00 \$0.00	\$237,601.84 \$0.00		\$237,601.84 \$0.00
	353 353	Repair and rewind of 115-69 KV #1 Autotransformer including uprating to a rated capacity of 60/80/100 MVA	\$335,776.00	\$0.00	\$335,776.00		\$335,776.00
	353	Insurance Recovery less deductible of \$25K	(\$321,696.66)	\$0.00	(\$321,696.66		(\$321,696.66)
	353	Lightning arrestors, delivery and testing	\$6,840.09	\$0.00	\$6,640.09		\$6,840.09
	353	60/80/100 MVA 115-69KV Autotransformer	\$544,772.08 \$42,610.39		\$544,772.08 \$42,610.39		\$544,772.08 \$42.610.39
	353 353	Installation cost for above 69kv Post Insulators	\$7,125.43		\$7,125.43		\$7,125.43
	353	Current Transformers		\$8,000.00	(\$8,000.00		(\$8,000.00)
							\$3,540,549.05
	Subtota	d .					40,040,04
Flagg Pon	d						
	352		<b>\$</b> 24,143.99	\$0.00	\$24,143.99	100%	\$24,143.99
	Subtota	ul					\$24,143.99
_		-					
Summer	Street 353	705' Chain Link Fence	\$3,261.00	\$0.00	\$3,261.00		\$3,261.00
	353	159' Chain Link Fence	\$1,150.43	\$0.00	\$1,150.43		\$1,150.43
	353	4 - Relay GE	\$1,610.00 \$1,592.00	\$0.00 \$0.00	\$1,610.00 \$1,592.00		\$1,610.00 \$1,592.00
	353 353	6 - GE Potential Transformers 3 - Switches for Control Power	\$1,592.00 \$164.00	\$0.00	\$164.00		\$164.00
	353	Conduit & Control Wiring	\$5,751.00	\$0.00	\$5,751.00		\$5,751.00

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#### Detail of Transmission Plant as of 12/31/97 (Per FERC's Seven Part T&D Facility Test)

		() di / Eillo o o v					
			Amount	Amount		noisaimenenT	Transmission
Category	Account	Description	Added	Retired \$0.00	<u>Balance</u> \$804,00	Percent 100%	Plant Balance \$804.00
	353	Conductors & Insulators	\$804.00 \$892.00	\$0.00	\$892.00	100%	\$892.00
	353	Transformer Foundation	\$892.00	\$0.00	\$892 00	100%	\$892.00
	353	Switchgear Foundation	\$892.00	\$0.00	\$892.00	100%	\$892.00
	353 353	Reactor Foundation Neutral Resistor Foundation	\$446.00	\$0.00	\$446.00	100%	\$446.00
	353	General Electric 21000/28000/35000MVA Power Transforme	\$66,743.00	\$0.00	\$86,743.00	100%	\$66,743.00
	353	3 - GE 600 Amp 300 Volt outdoor Reactor	\$4,674.00	\$0.00	\$4,674.00	100% 100%	\$4,674.00 \$10,731.00
	353	2 - GE 1200 amp 14.4KV oil Circuit Breaker	\$10,731.00 \$6,014.00	\$0.00 \$0.00	\$10,731.00 \$6,014.00	100%	\$6,014.00
	353	37 - Disconnect Switches	\$3,009.00	\$0.00	\$3,009.00	100%	\$3,009.00
	353 353	24 - Tandem Transfer Switches 24 - 15kv valve Lightning Arresters	\$3,215.00	\$0.00	\$3,215.00	100%	\$3,215.00
	353 353	Grounding Material Installed	\$1,601.00	\$0,00	\$1,601.00	100%	\$1,601.00
	353	Bus Connections 13.8kv Installed	\$6,554.76	\$0.00	\$6,554.76	100%	\$6,554.76
	353	GE Neutral Resistpr	\$10,825.00	\$0.00 \$0.00	\$10,825.00 \$260.00	100% 100%	\$10,825.00 \$260.00
	353	GE Oil Circuit Breaker	\$260.00 \$19,645.00	\$0.00	\$19,645.00	100%	\$19,645.00
	353	GE Protected Aisle Switchgear  18 - Poles installed Terminations of 13.8kv Feeder in S/S	\$1.571.00	\$0.00	\$1,571.00	100%	\$1,571.00
	353 353	62 - Crossarms	\$918.00	\$0.00	\$918.00	100%	\$918.00
	353	200' - 336,4MCM Atum wire	\$2,472.00	\$0.00	\$2,472.00	100%	\$2,472.00
	353	12 - Anchor guys	\$311.00	\$0.00	\$311.00	100%	\$311.00
	353	4 - 800 amp Oil Circuit Breakers 250 MBA 14.4kv	\$20,433.00	\$0.00 \$0.00	\$20,433.00 \$11,622.00	100% 100%	\$20,433.00 \$11,622.00
	353	2 - Recloser installed	\$11,622 00 \$88.00	\$0.00	\$88.00	100%	\$88.00
	353	1 - 18' Switch Stick	\$311.00	\$0.00	\$311.00	100%	\$311,00
	353 353	2 - Flood lights 2 - Indicators on cooling fans of transformer & oil pump	\$75.00	\$0.00	\$75.00	100%	\$75.00
	353	Foundation for OCB	\$1,661.00	\$0.00	\$1,661.00	100%	\$1,661.00
	353	Foundation for Steel Structure	\$2,545.00	\$0.00	\$2,545.00	100%	\$2,545.00
	<b>3</b> 53	Foundation for Control House	\$961,00 \$37,901,00	\$0.00 \$0.00	\$961.00 \$37,901.00	100% 100%	\$961.00 \$37,901.00
	353	3 - GE 2500mva OCB	\$9,153.00	\$0.00	\$9,153.00	100%	\$9,153.00
	353	Steel Structure Control House	\$2,990.00	\$0.00	\$2,990.00	100%	\$2,990.00
	353 353	Grounding	\$894.00	\$0.00	\$894.00	100%	\$894.00
	353	3 - Control Panels	\$9,410.00	\$0.00	\$9,410.00	100%	\$9,410.00
	353	Conduit & Wiring	\$2,569.00	\$0.00	\$2,569.00 \$12,037.00	100% 100%	\$2,569.00 \$12,037.00
	<b>3</b> 53	Supervisory Equipment	\$12,037.00 \$3,325.00	\$0.00 \$0.00	\$3,325.00	100%	\$3,325,00
	353	Additional Charges	\$5,763.00	\$0.00	\$5,763.00	100%	\$5,763.00
	<b>3</b> 53 <b>3</b> 53	69ky Bus Insulators & Connectors 5 - 69ky 1200 amp TPST	\$11,228.00	\$0.00	\$11,228.00	100%	\$11,228.00
	353 353	23 - 69kv 600 amp Disconnect Switch	\$7,682.00	\$0.00	\$7,682.00	100%	\$7,682.00
	353	9 - 69ky Lightning Arrestors	\$3,682.00	-\$0.00	\$3,682.00		\$3,682.00
	353	3 - 69ky Capacitor Devices	\$2,810.00	\$0.00	\$2,810.00 \$777.00		\$2,810.00 \$777.00
	353	Foundation for OCB	\$777.00 \$509.00	\$0.00 \$0.00	\$509.00		\$509.00
	353	Conduit Connection installed	\$2,992.00	\$0.00	\$2,992.00		\$2,992.00
	353 353	Control Panel Termination for #08 Line	\$1,303.00	\$0.00	\$1,303.00		\$1,303.00
	353	Overheads	\$4,416.00	\$0.00	\$4,416.00		\$4,416.00
	353	1 - 69kv OCB	\$16,347.00	\$0.00	\$16,347.00		\$16,347.00 \$670.00
	353	Overheads	\$670.00 \$2,249.00	\$0.00 \$0.00	\$670.00 \$2,249.00		\$2,249.00
	353	2 - Underfrequency Relays	\$1,652.00	\$0.00	\$1,652.00		\$1,652.00
	353 353	Foundation 69ky Bus Insulators & Connectors	\$7,183.90	\$0.00	\$7,183.90		\$7,183.90
	363	Steel Structure	\$7,083.00	\$0.00	\$7,083.00		\$7,083.00
	353	Grounding	\$538.00	\$0.00 \$0.00	\$538.00 \$9,067.00		\$538.00 \$9,067.00
	353	Control Panels	\$9,067.00 \$875,00	\$0.00	\$875.00	1111	\$875.00
	353	Conduit & Wiring 2 - 69ky Air Break Switches	\$6,128.00	\$0.00	\$6,128.00		\$6,128.00
	353 353	9 - 69ky 600 amp Disconnect Switch	\$4,037.00	\$0,00	\$4,037.00		\$4,037.00
	353	1 - 69kv OCB	\$18,907.00	\$0,00	\$18,907.00		\$18,907.00
	353	6 - 69ky Lightning Arrestors	\$4,362.00	\$0.00	\$4,362.00		\$4,362.00
	353	1 - Electric Heater in 13.8KV Switchgear cabin	\$260.12 \$4,093.17	\$0.00 \$0.00	\$260.12 \$4,093.17		\$260.12 \$4,093.17
	353	8 - Bushings 2000amp 13.8kv high volt for roof of building	\$4,093.17 \$1,257.58	\$0.00	\$1,257.58		\$1,257.58
	353 353	3 - Bushing on GE Oil Circuit Breakers on #3 & #40 feeder Transformer Replacement	\$937.01	\$0.00	\$937.01		\$937.01
	353 353	Transformer Lightning Arrester replaced	\$399.55	\$0.00	\$399.55		\$399.55
	353	2 - 69kv OCB for #01 Line	\$96,019.79	\$0.00	\$96,019.79		\$96,019.79
	353	Supervisory Control Recloser Indicator	\$2,898.60 \$841.90	\$0.00 \$0.00	\$2,898.60 \$841.90		\$2,896.60 \$841.90
	353	Install 540' of #12-7 conductor to Robin Hood Park Nominal Capacity Lead Antimony Battery	\$1,943.92	\$0.00	\$1,943.92		\$1,943.92
	353 353	3 - 600 amp 13.8ky outdoor reactors	\$15,085.31	\$0.00	\$15,085.31	100%	\$15,085.31
	353	6 - Bushings for #40-10 3 oil circuit breaker	\$3,096.35	\$0.00	\$3,095.35		\$3,096.35
	353	FERC Adjustment	(\$79.00)	\$0.00	(\$79.00		(\$79.00)
	353	Install 21/2' plywood board incontrol house	\$618.78	\$0.00	\$618.78		\$618.78 \$75,309.61
	353	Capacitor Bank 36 - 200Kvar Cap Units	\$75,309.61 \$10,968.78	\$0.00 \$0.00	\$75,309.6° \$10,968.70		\$10,968.78
	353	Additions Additions	\$11,232.45	\$0.00	\$11,232 4		\$11,232 45
	353 353	Additions Purch of McGrew Edison UCR Oil Switch	\$4,169.15	\$0.00	\$4,169.1	5 100%	\$4,169.15
	353	2 - Installed 69kv Bus Insulator	\$785.20	\$0.00	\$785.20		\$785.20
	353	8 - Yuasa Epide batteries for DC Supply	\$3,225.84	\$0.00	\$3,225 8		\$3,225.84 \$945.22
	353	Install stage Regulator & Nitro tanks to transformer	\$845.22 \$691.47	\$0.00 \$0.00	\$845.2 \$691.4		\$845.22 \$691.47
	353	Remove & install new #2 Capacitor Switch	\$691.47 \$2,440.00	30 00	\$2,440.0		\$2,440.00
	353 363	Bar Gate installation Disconnect Switches	\$6,455.87		\$6,455.8	7 100%	\$6,455.87
	353	Disconnect Switches		\$975 24	(\$975.2		(\$975.24)
	353	Pin Insulator	\$946.93		\$946.9		\$946.93 \$2,113.14
	353	Epoxiators	\$2,113.14		\$2,113.1	100%	34,113,14

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#### Detail of Transmission Plant as of 12/31/97 (Per FERC's Seven Part T&D Facility Test)

		(Per FERUS Seven	ran row rac	my i asy			
			Amount	Amount	Total Plant	Transmission	Transmission
Calanno	Account	<u>Description</u>	Added	Retired	Balance	Percent	Plant Balance
Calegory	ACCOUNT.						****
	Subtotat						\$637,815.59
#01 & #02 L			#24 E47 E4	\$0.00	\$34,547.61	100%	\$34,547.61
	356	02 Line conductor 1969 556.7 MCM	\$34,547.61 \$139,411.07	\$0,00	\$139,411.07	100%	\$139,411.07
	356	01 Line conductor 1973 556.7 MCM	\$9,919.24	\$0.00	\$9,919.24	100%	\$9,919,24
	356	02 Line shield wire 1969 2 wires - 3 No. 6 01 Line shield wire 1973 1 wire - 3 No. 6	\$12,961.62	\$0.00	\$12,961.62	100%	\$12,961.62
	356	DI Line stried wife 1973   1 4/16 - 2/40: 0	412,001.02	•			
	Subtotal						\$196,839.54
	Guototai						
#01 & #02 L	ine Poles a	nd Xerms					
			enn4 574 00	<b>*</b> 0.00	£221 674 00	100%	\$221,574.99
	355	02 Line poles 1969 (itemized list GHH)	\$221,574.99 \$341,628.84	\$0.00 \$0.00	\$221,574.99 \$341,628.84	100%	\$341,628.84
	355	01 Line poles 1969 (itemized list GHH)	\$341,020.04	30.00	\$541,020.04	10014	40-11,020.0-1
	Subtotal						\$563,203.83
	300(0(2)						
Electric Sta	noti		****	en en	\$146.57	100%	\$146.57
	353	Special Transformer Inclosure	\$146.57 \$506.71	\$0.00 \$0.00	\$506,71	100%	\$506.71
	353	Fence	\$980.23	\$0.00 \$0.00	\$980.23	100%	\$980.23
	353	Concrete Mat for transformer	\$15,568.02	\$0.00	\$15,568.02	100%	\$15,568.02
	353	5000kva GE 3 Phase transformer	\$1,727.22	\$0.00	\$1,727.22		\$1,727.22
	353	Install Transformer Reinforce foundation	\$3,271.47	\$0.00	\$3,271.47	100%	\$3,271.47
	353 353	***************************************	\$868.20	\$0.00	\$868.20	100%	\$868.20
		155' - fence 13ky cable connections to switchgear	\$1,859.53	\$0.00	\$1,859.53	100%	\$1,859.53
	353 353	5000kva GE 3 Phase transformer	\$17,995.96	\$0.00	\$17,995.96	100%	\$17,995.96
	353 353	Foundation	\$4,086.42	\$0.00	\$4,086.42	100%	\$4,086.42
	353	Install Transformer	\$900.53	\$0.00	\$900.53	100%	\$900,53
	353	13.8ky cable connections to switchgear	\$3,854.34	\$0,00	\$3,854.34		\$3,854,34
	353	5 ky bus duct installed	\$10,797.32	\$0.00	\$10,797.32		\$10,797.32
	353	Eastern Fence 12' double drive gate & posts	\$149.00	\$0.00	\$149,00		\$149.00
	353	69ky Power Transformer & Foundation	\$101,768.00	\$0.00	\$101,768.00		\$101,768.00
	353	Gaty Steel Terminating Structure	\$8,099.00	\$0.00	\$8,099.00		\$8,099.00
	353	Ins & misc connections installed	\$733.00	\$0.00 \$0.00	\$733.00 \$282.00		\$733.00 \$282.00
	353	3x8 Lighted Sign	\$282.00 \$52,613.25	\$0.00	\$52,613.25		\$52,613.25
	353	Additional 1800 Kvar of capacitors in bank	\$2,104.00	\$0.00	\$2,104.00		\$2,104.00
	353	Auxiliary Currenttransformer	\$348.00	\$0.00	\$348.00		\$348.00
	353 353	West, differential relays Lockout & auditary relays	\$1,447.00	\$0.00	\$1,447.00		\$1,447.00
	353	15 ky current Transformers	\$1,260.00	\$0.00	\$1,260.00	100%	\$1,260.00
	353	Annunciators installed	\$669.00	\$0.00	\$669.00	100%	\$669.00
	353	13kv Potential transformer	\$3,763.00	\$0.00	\$3,763.00		\$3,763.00
	353	Central Wiring	\$4,074.00	\$0.00	\$4,074.00		\$4,074.00
	353	West 450kva Current Limiting reactor	988,00	\$0.00	\$6,988.00		\$6,988.00
	353	Change range of Speedomax Leed & Northrup Recorder	\$365.00	\$0.00	\$365.00		\$365.00
	353	GE Auxiliary transformer & Relays	\$3,295.00	\$0.00	\$3,295.00		\$3,295.00
	353	Speedomax Recorder Leeds & Northrup	\$1,378.00	\$0.00	\$1,378.00		\$1,378.00 \$457.00
	353	Thermal Converter	\$457.00 \$1,169.00	\$0.00 \$0.00	\$457.00 \$1,169.00		\$1,169.00
	353	Parts to change range of thermal converter	\$333.00	\$0.00	\$333.00		\$333.00
	353 353	Converting range on Speedomax Converting range on Speedomax	\$288.00	\$0.00	\$288.00		\$288.00
	353	Converting range on Speedomax	\$332,00	\$0.00	\$332.00	100%	\$332.00
	353	Amplifier Leeds & Northrup to be used with Speedomax	\$158.00	\$0.00	\$158.00	100%	\$158.00
	353	Supervisory Equip installed	\$4,452.00	\$0.00	\$4,452.00		\$4,452.00
	353	Additional charges for above	\$1,230.00	\$0.00	\$1,230.00		\$1,230.00
	353	Capitalized Overheads for above	\$248.00	\$0,00	\$248.00		\$248.00
	353	Underground system improvement	\$5,667.99	\$0.00	\$5,667.99		\$5,667.99
	353	Install of a 13.8kv Bus between #6 & Bus #2	\$58,844.30	\$0.00	\$58,844.30 \$7,965,19		\$58,844.30 \$7,965.19
	353	Replace Lead Calcium Battery	\$7,965.19 \$413.74	\$0.00 \$0.00	\$413.74		\$413.74
	353	Purch Power Supply for Tone Equipment	\$413.74	<b>\$0.00</b>	<b>4</b> (3.7	100%	4419.74
	0.44-4-	.1					\$333,455.99
	Subtota	<b>!</b> !					
Electric S	itation Line						
EMPCURC A	356	Trans Line from Electric Station	\$5,604.00	\$0.00	\$5,604.0		\$5,604.00
	356	Trans Line from Electric Station	\$15,011.00	\$0.00	\$15,011.0		\$15,011.00
	355	Trans Line from Electric Station Allocation (Estimated)	\$36,342.86	\$0.00	\$36,342.8	6 100%	<b>\$36,342.88</b>
							era 057 ne
	Subtota	af					\$56,957.86
4 4							
Land	350	Cost of Land purchased from New England Power Co.	\$6,663.35	\$0.00	\$6,663.3		\$6,663.35
	350	Acquisition Costs for land at Flagg Pond & Beech St. Subs	\$817.70	\$0.00	\$817.7		\$817.70
	350	Transmission Land #01, 02 & 06 Lines	\$78,545.00	\$0.00	\$78,545.0		\$78,545.00
	350	Transmission ROW #01, 02 & 06 Lines	\$144,391.00	\$0.00	\$144,391.0		\$144,391.00
	351	Clearing on Line #01 Flagg Pond to Summer St. S/S	\$6,654.38	\$0.00	\$6,654.3		\$6,654.38
	351	Install gate at both ends of 01 & 02 tap	\$1,381.92	\$0.00	\$1,381.9 \$4,707.0		\$1,381,92 \$4,797,00
	350	Off Summer St. Fitchburg	\$4,797.00	\$0.00	\$4,797.0 \$2,890.0		\$2,890.00
	350	Crushed Stone for Summer St. S/S yard	\$2,890.00 \$538.00	\$0.00 \$0.00	\$2,890.0 \$528.0		\$528.00
	350	Grading for Summer St. S/S	\$528.00	<b>30.0</b> 0	<b>3</b> 328.0	. 100 11	4020.00

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DTE 02-24/25 (Electric) Attachment AG-5-7 Page 45 of 71

#### Detail of Transmission Plant as of 12/31/97 (Per FERC's Seven Part T&D Facility Test)

	Account Subtotal	<u>Description</u>	Amount <u>Added</u>	Amount Retired	Total Plant <u>Balance</u>	Transmission <u>Percent</u>	Transmission Plant Balance \$246,668.35
NEPCo Acqui	<u>sition Cost</u> 352 353		\$4,018.08 \$122,600.09			61% * 61% *	\$2,441.52 \$74,495.91 \$76,937.43
JOINT OWNE Millistone III Wyman#4 New Haven	352 353 355 355 356 352 353 352 353 352 353		\$11,383.84 \$50,261.66 \$13,202.36 \$3,302.94 \$0.00 \$4,636.19 \$0.00 \$55,704.98			100% 100% 100% 100% 100% 100% 100%	\$11,383,84 \$50,261.66 \$13,202.36 \$3,302.94 \$0.00 \$4,636.19 \$0.00 \$55,704.98
G	Grand Total					Total	\$5,815,064

<sup>61%</sup> is the ratio of transmission plant as defined in this workpaper, to transmission plant as defined in Dec 31, 1997 FERC Form 1 filing, page 207 line 53. NEPCo acquisition costs are being allocated in the same percentage as facilities being allocated between transmission and distribution.

DTE 02-24/25 (Electric) Attachment AG-5-7 Page 46 of 71

## Workpaper 1 Detail of PTF Transmission Plant as of 12/31/97

		<u>Description</u>	Amount Added	Amount Retired	Total Plant Balance	PTF Percent	PTF Plant Balance
<u>Category</u> Flagg Pond	Account	<del></del>		\$0.00	\$24,143.99	100%	\$24,143,99
	352	Structures and Improvements	\$24,143.99 \$1,272,305.18	\$0.00	\$1,272,305.18	100%	\$1,272,305.18
	353	Purchased from New England Power on 6/1///	(\$64,274.29)	\$0.00	(\$84,274.29)	100%	(\$84,274.29)
	353	Transfer acquisition costs to acct 2-353-99 Retire 2 600 amp OCB plus installation	\$0.00	\$21,975.62	(\$21,975.62)	100%	(\$21,975.62)
	353 353	Install 115kv breaker status for REMVEC	\$14,556.40	\$0.00	\$14,556.40	100%	\$14,556.40
	353	See F-2172	\$937,758.94	\$12,809.54	\$924,949.40	100%	\$924,949.40
	353	Install 2 1000w: Lucalox Floodlights near control shack	\$2,938.12	\$0.00	\$2,938.12	100%	\$2,938.12 \$21,174.57
	353	Install Potential Transformers	\$21,174.57	\$0.00 \$4,628.41	\$21,174.57 (\$4,628.41)	100%	(\$4,626.41)
	353	Retire PT	\$0.00 \$41,916.83	\$0.00	\$41,916.83	100%	\$41,910.63
	353	Metering Install #27 & #28 airbreak switch on #2 Feeder	\$17,310.44	\$0.00	\$17,310.44	100%	\$17,310.44
	353 353	Ratire #27 & #28 airbreak switch on #2 Feeder	\$0.00	\$5,762 36	(\$5,762.36)	100%	(\$5,762.38)
	353 353	Adjust to above entry	\$183.25	\$0.00	\$183.25	100%	\$183.25
	353	Install PT on 02 Line	\$8,435.83	\$0.00	\$8,435.83 (\$21,174.57)	100% 100%	\$8,435.63 (\$21,174.57)
	353	Retire PT on 02 Line	\$0.00 \$1,888,89	\$21,174.57 \$0.00	\$1,868.89	100%	\$1,868.89
	353	Install 2016 of 4/0 st bare copper	\$4,033,47	\$0.00	\$4,033.47	100%	\$4,033.47
	353 353	Install 50' of 2" PVC Pipe 785' of 4/0 st 600 volt	\$0.00	\$1,198.75	(\$1,198.75)	100%	(\$1,198.75)
	353	50' of 4/0 wire	\$0.00	\$31.55	(\$31,55)	100%	(\$31.55)
	353	760' of 4/0 hard drawn wire	\$0.00	\$1,310.88	(\$1,310.88)	100% 100%	(\$1,310.88) (\$106.74)
	353	50' of 4/0 wire	\$0.00 \$0.00	\$106,74 \$2,876,75	(\$106.74) (\$2,876.75)	100%	(\$106.74) (\$2,876.75)
	353	965' of 4/0 wire	\$0.00	\$164.50	(\$164.50)	100%	(\$184.50)
	353	50" of 2" PVC Pipe GE 69kv Bushing in OCB s/n 0139A4928-201	\$0.00	\$14,231.56	(\$14,231.56)	100%	(\$14,231.56)
	353 353	69kv 1200emp bushing in OCB	\$2,405.57	\$0.00	\$2,405.57	100%	\$2,405.57
	353	Data Star Recorders	\$3,780.00	\$0.00	\$3,780.00	100%	\$3,780.00
	353	Installed Data Star Recorder Software Level #2	\$750.00	\$0.00	\$750.00	100%	\$750.00
	353	Payroll & overheads for above install	\$1,014.38	\$0.00 \$5,300.00	\$1,014,38 (\$5,300.00)	100% 100%	\$1,014.38 (\$5,300.00)
	353	Recorder Tape System GE	\$0.00 \$0.00	\$837.20	(\$637.20)	100%	(\$637.20)
	353	Universal Mag Tepe Certridges WattrVar Transducer	\$5,950.00	\$0.00	\$5,950.00	100%	\$5,950.00
	353 353	Volt Transducer	\$185.00	\$0.00	\$165.00	100%	\$185.00
	353	Shipping & Handling	\$34.92	\$0.00	\$34.92	100% 100%	\$34.92 \$1.142.10
	<b>3</b> 53	500' 4/C #12 AWG Control Cable	\$1,142.10 \$41.39	\$0.00 \$0.00	\$1,142.10 \$41.39	100%	\$41.39
	353	50' 1/2 wart precision resistors	\$86.45	\$0.00	\$86.45	100%	\$86.45
	353 353	350' T&B Stakon Terminals 69' Copper Wire	\$10.35	\$0.00	\$10.35	100%	\$10.35
	353	Cable Tie	\$17.55	\$0.00	\$17.55	100%	\$17.55
	353	Misc Parts	\$52.76	\$0.00	\$52.76 \$368.80	100% 100%	\$52.76 \$368.80
	353	Labor for fixing recorder	\$368.80 \$124.20	\$0.00 \$0.00	\$124,20	100%	\$124.20
	353	Labor for wiring	\$124.20 \$422.31	\$0.00	\$422.31	100%	\$422.31
	353	Install GETEC Telemetering to REMVAC (Liabilities) Overheads	\$6,638.54	\$0,00	\$6,838.54	100%	\$6,638,54
	353 353	Payroll	\$8,030.61	\$0,00	\$8,030.61	100%	\$8,030.61
	353	Bristol DPC 333010A computer	\$4,230.71	\$0.00	\$4,230.71	100%	\$4,230.71
	353	Bristol SLC 371140A Recorders	\$5,771.41	\$0.00 \$0.00	\$5,771.41 \$515.05	100% 100%	\$5,771.41 \$515.05
	353	Bristol Power Supply	\$515.05 \$2,355.00	\$0.00	\$2,355.00	100%	\$2,355.00
	353	Labor to set up Bristol Spare Interrupter Assembly for 115kv Circuit breaker	\$9,512.00	\$0.00	\$9,512.00	100%	\$9,512.00
	353 353	Retire Westinghouse auto trensformer	\$0.00	\$152,101.77	(\$152,101.77)		(\$152,101.77)
	353	Redesign Rewind & Rebuild 30/40/50 MVA West	\$0.00	\$0.00	\$0.00		\$0.00 \$514,480.75
	353	Auto Transformer s/n 34891 includes all charges	\$514,480.75 \$200,032.04	\$0.00 \$0.00	\$514,480.75 \$200,032.04		\$200,032.04
	353	Purch used Auto Transformer 24/40 mva Magnitek	\$0.00	\$506.26	(\$505.26		(\$505.26)
	353 353	Fused Disconnect Replace Fused Disconnect	\$434.21	\$0.00	\$434.21	100%	\$434,21
	353	Install & purch EM-GRO Air Compressor	\$1,273.97	\$0.00	\$1,273.97		\$1,273.97
	353	Install Deadend Structure 3-arrestors & 6-bushings	\$30,233.66	\$0.00	\$30,233.66		\$30,233.66 \$0.00
	353	Construct 115 Kv facilities & connect spare transformer	\$0.00 \$337.601.64	\$0.00 \$0,00	\$0.00 \$237,601.84		\$237,601.84
	353	in place of feiled #1 autotrans. Repair and rewind of 115-69 KV #1 Autotransformer	\$237,601.84 \$0.00	\$0.00	\$0.00		\$0.00
	353 353	including uprating to a rated capacity of 60/80/100 MVA	\$335,776.00	\$0.00	\$335,776.00	100%	\$335,776.00
	353	Insurance Recovery less deductible of \$25K	(\$321,696.66)	\$0.00	(\$321,696.66		(\$321,696.66)
	353	Lightning arrestors, delivery and testing	\$6,840.09	\$0.00	\$6,840.09		\$6,840.09 \$544,772.08
	353	60/80/100 MVA 115-69kV Autotransformer (1996)	\$544,772.08 \$42,610.39	\$0.00 \$0.00	\$544,772.08 \$42,610.39		\$42,610.39
	353	Installation cost for above (1996)	\$7,125.43	\$0.00	\$7,125.43		\$7,125.43
	353 353	89kv Poet Insulators Current Transformers	\$0.00	\$8,000.00	(\$8,000.00	n 100%	(\$8,000.00)
	Subtot						\$3,662,459.06
Summer S	Street - Gen	eral		***	£2 201 C	21.4% (1)	\$698,79
	353	705' Chain Link Fence	\$3,261.00 \$1,150.43	\$0.00 \$0.00	\$3,261.00 \$1,150.43		\$246.52
	353 353	159' Chain Link Fence 2 - Flood lights	\$311.00	\$0.00	\$311.00	21.4%	\$86,64
	353	Foundation for OCB	\$1,861.00	\$0.00	\$1,661.00		\$355.93
	353	Foundation for Steel Structure	\$2,545.00	\$0.00	\$2,545.00 \$981.00		\$545.36 \$205.93
	353	Foundation for Control House	\$961,00 \$777,00	\$0.00 \$0.00	\$901,U \$777.00		\$205.93 \$166.50
	353	Foundation for OCB Conduit Connection installed	\$509.00	\$0.00	\$509.00		\$109.07
	353 353	Control Panel	\$2,992.00	\$0.00	\$2,992.00	21.4%	\$641.14
	353	Termination for #08 Line	\$1,303.00	\$0.00	\$1,303.00		\$279.21
	353	Overheads	\$4,416.00	\$0.00	\$4,415.0		\$946.29 \$354.00
	353	Foundation	\$1,652.00	\$0.00	\$1,652.0	0 21.4%	\$354.00

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## Workpaper 1 Detail of PTF Transmission Plant as of 12/31/97

			Amount	Amount	Total Plant	PTF	PTF
		Description	Added	Retired	Balance	Percent	Plant Balance
Category	Account	\$ 44-41 miles					\$4,615.38
	Subtotal						
	CO LV E	Coulomant					
Summer Stre	353	4 - Refay GE	\$1,610.00	\$0.00	\$1,610.00	42.9% (2)	\$690.00
	353	6 - GE Potential Transformers	\$1,592.00	\$0.00	\$1,592.00	42.9%	\$682.29
		3 - Switches for Control Power	\$164.00	\$0.00	\$164.00	42.9%	\$70.29
	353		\$5,751,00	\$0.00	\$5,751.00	42 9%	\$2,464.71
	353	Conduit & Control Wiring	\$604.00	\$0.00	\$604.00	42.9%	\$344.57
	353	Conductors & Insulators	\$37,901.00	\$0.00	\$37,901.00	42 9%	\$16,243,29
	353	3 - GE 2500mvs. OC8	\$9.153.00	\$0.00	\$9,153,00	42.9%	\$3,922,71
	353	Steel Structure	\$2,990.00	\$0.00	\$2,990.00	42.9%	\$1,261,43
	353	Control House	\$894.00	\$0.00	\$894.00	42.9%	\$383.14
	353	Grounding		\$0.00	\$9,410,00	42.9%	\$4,032.86
	353	3 - Control Panels	\$9,410.00		\$2,569.00	42.9%	\$1,101.00
	353	Conduit & Wiring	\$2,569.00	\$0.00			
	353	Supervisory Equipment	\$12,037.00	\$0.00	\$12,037.00	42.9% 42.9%	\$5,158 71
	353	Additional Charges	\$3,325.00	\$0.00	\$3,325.00		\$1,425.00
	353	69ky Bus Insulators & Connectors	\$5,783.00	\$0.00	\$5,763.00	42.9%	\$2,469.86
	353	5 - 69kv 1200 amp TPST	\$11,228.00	\$0.00	\$11,228.00	42.9%	\$4,812.00
	353	23 - 69kv 600 amp Disconnect Switch	\$7,682.00	\$0.00	\$7,682.00	42.9%	\$3,292.29
	353	9 - 69ky Lightning Arrestors	\$3,682.00	\$0.00	\$3,682.00	42.9%	\$1,578.00
	353	3 - 69ky Capacitor Devices	\$2,810.00	\$0.00	\$2,810.00	42.0%	\$1,204.29
	353	2 - Underfrequency Relays	\$2,249.00	\$0.00	\$2,249.00	42.9%	\$963.86
	353	69kv Bus insulators & Connectors	\$7,183.90	\$0.00	\$7,183.90	42.9%	\$3,078.81
	353	Steel Structure	\$7,083.00	\$0.00	\$7,083.00	42.9%	\$3,035.57
	353	Grounding	\$538.00	\$0.00	\$538.00	42.9%	\$230.57
		Control Panels	\$9,067,00	\$0.00	\$9,067.00	42.9%	\$3,885.86
	353	==	\$875.00	\$0.00	\$875.00	42.9%	\$375.00
	353	Conduit & Wiring	\$6,128.00	\$0.00	\$6,128.00	42.9%	\$2,626.29
	353	2 - 69kv Air Break Switches	\$4,037.00	\$0.00	\$4,037.00	42.9%	\$1,730,14
	353	9 - 69ky 600 amp Disconnect Switch	\$18,907.00	\$0.00	\$18,907,00	42.9%	\$8,103.00
	353	1 - 69kv OCB	\$4,362.00	\$0.00	\$4,362.00	42.9%	\$1,869.43
	353	6 - 69kv Lightning Arrestors	\$96,019.79	\$0.00	\$96,019.79	42.9%	\$41,151.34
	353	2 - 69kv OC8 for #01 Line	\$2,898.60	\$0.00	\$2,896.60	42.9%	\$1,242.26
	353	Supervisory Control Recloser Indicator		\$0.00	\$1,943.92	42.9%	\$833,11
	353	Nominal Capacity Lead Antimony Battery	\$1,943.92			42.9%	\$336,51
	353	2 - Installed 69kv Bus Insulator	\$785.20	\$0.00	\$785.20		
	353	8 - Yuasa Epide betteries for DC Supply	\$3,225.84	\$0.00	\$3,225 84	42 9%	\$1,382.50
							*********
	Şubtotal						\$122,000.68
#01 & #02 L	ines				******	100%	******
	356	02 Line	\$34,547.61	\$0.00	\$34,547.61		\$34,547.61
	356	01 Line	\$139,411.07	\$0.00	\$139,411.07	100%	\$139,411,07
	356	02 Line shield wire 2 wires - 3 No 6	\$9,919.24	\$0,00	\$9,919.24		\$9,919.24
	356	01 Line shield wire 1 wire - 3 No. 6	\$12,961.62	\$0.00	\$12,961.62	100%	\$12,961.62
	Subtota	I					\$196,839.54
#01 & #02	Line Poles a	and Crossarms					
							****
	355	02 Line poles and crossarms (See Workpaper A)	\$221,574.99	\$0.00	\$221,574.99		\$221,574.99
	355	01 Line poles and crossarms (See Workpaper A)	\$341,628.84	\$0.00	\$341,628.84	100%	\$341,628.84
		•					
	Subtota	1					\$563,203.83
	540.00	•					
Land							
Certo	350	Cost of Land purchased from New England Power Co.	\$8,663.35	\$0.00	\$6,663.35		\$6,046.32
	350	Acquisition Costs for land at Flagg Pond & Beech St. Subs	\$817.70	\$0.00	\$817.70		\$817.70
	360	Transmission Land #01, 02 & 06 Lines	\$78,545.00	\$0.00	\$78,545.00		\$71,271.73
	350	Transmission ROW #01, 02 & 06 Lines	\$144,391.00	\$0.00	\$144,391,00		\$131,020.39
	351	Cleaning on Line #01 Flagg Pond to Summer St. S/S	\$8,854.38	\$0.00	\$6,654.38		\$6,654.38
	351	install gate at both ends of 01 & 02 tap	\$1,381.92	\$0.00	\$1,381.92		\$1,381.92
	350	Off Summer St. Fitchburg	\$4,797.00	\$0.00	\$4,797.00		\$4,352.80
	350	Crushed Stone for Summer St. S/S yard	\$2,890.00	\$0.00	\$2,890.00		\$2,622.39
	350	Grading for Summer St. S/S	\$526.00	\$0.00	\$528.00	91%	\$479.11
		~					
	Subtota	al .					\$224,646.74

Notes

Grand Total

(1) Because Summer Street has 69 kV and 13.8 kV plant, Summer Street general plant was first allocated 50% between 13.8 kV and 69 kV. This plant was then allocated to PTF based upon the number of PTF breakers to total 69 kV breakers (3 out of 7, or 42.9%). Thus, the total allocator = 50% times 42.9% = 21.42%

Page 2 of 2

\$4,773,765.23

<sup>(2)</sup> Summer Street 69 kV plant was allocated to PTF based upon the number of PTF breakers to total 69 kV breakers. (3 out of 7, or 42 9%).

<sup>(3)</sup> The 01 & 02 Line ROW's are approximately 73.95 acres, and the 06 Line ROW is approximately 7.55 acres. The PTF percentage, 90,74% (73.95 / 81.50), is used to remove the 06 Line ROW.

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# Workpaper A Detail of PTF Transmission Plant as of 12/31/97 01 & 02 Transmission Line Costs (Account #355)

#### 01 Line (in-service 1973)

<u>tem</u>	Total <u> tems (#)</u>	Total Cost of Items (\$)	Cost <u>Per Item (\$)</u>	01 Line <u>items (#)</u>	01 Line Costs (\$)
45 Ft Poles	7	\$5,140.01	\$734.29	2	\$1,468.57
50 Ft Poles	18	\$7,971.96	\$442.89	4	\$1,771.55
55 ft Poles	18	\$25,026.46	\$1,390.36	13	\$18,074.67
60 Ft Poles	42	\$70,012.22	\$1,666.96	22	\$36,673.07
65 Ft Poles	47	\$103,127.09	\$2,194.19	16	\$35,107.09
70 Ft Poles	39	\$97,652.55	\$2,503.91	19	\$47,574.32
75 Ft Poles	30	\$87,878.09	\$2,929.27	11	\$32,221.97
80 Ft Poles	5	\$18,850.40	\$3,770.08	5	\$18.850.40
Subtoto	at:	\$415,658.78			\$191,741.63
Guys (1)		<b>\$</b> 44,427.86			\$20,494.38
Crossams (1)		\$25,359.48			\$11,698.22
Steel Poles & Foundations	14	\$460,578.42	\$32,898.46	3.5	\$115,144.61
Stone & Webster Study (2)	14	\$10,200.00	\$728.57	3.5	\$2,550.00
			TOTAL O	cost [	\$341,628.84

	Total	Total Cost	Cost	02 Line	02 Line
<u>Item</u>	items (#)	of Items (\$)	Per Item (\$)	ttems (#)	Costs (\$)
45 ft Poles	4	\$4,554.46	\$1,138.62	4	\$4,554.46
50 Ft Poles	11	\$10,624.28	\$965.84	8	<b>\$7,72</b> 6.75
55 Ft Poles	12	\$11,046.00	\$920.50	10	\$9,205.00
60 ft Poles	25	\$22,927.38	\$917.10	25	\$22,927.38
65 Ft Poles	18	\$14,004.00	\$778.00	18	\$14,004.00
70 ff Poles	23	\$20,062.24	\$872.27	20	\$17,445.43
75 ft Poles	21	\$21,576.50	\$1,027.45	17	\$17,466.69
80 ff Poles	5	\$5,562.00	\$1,112.40	5	<b>\$</b> 5,562.00
Subtot	al:	\$110,356.86			\$98,891.71
Guys		\$4,821.02			\$4,821.02
Crossarms		\$167.66			\$167.66
Steel Poles		,			
& foundations	14	\$460,578.42	\$32,898.46	3.5	\$115,144.61
Stone & Webster					
Study (2)	14	\$10,200.00	\$728.57	3.5	\$2,550.00
			IOTAL O	COST [	\$221,574.99

<sup>(1) 01</sup> Line costs of Guys and Crossarms are determined based on the ratio of 01 Line pole costs to total pole costs.

<sup>(2) 01 &</sup>amp; 02 Line Stone & Webster Study costs are determined based on the ratio of the applicable line's steel pole cost to the total steel pole cost.

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# WORKPAPER 2 Fitchburg Gas and Electric Light Company 1997 Cost of Capital

### Pursuant to NEPOOL Open Access Transmission Tariff - ATTACHMENT F

	Amount Outstanding 12/31/97	C.O.C.	Weight	Weighted Cost of Capital
Common Stock Equity	37,907,035	11.50%	51.01%	5.87%
Preferred Stock	2,400,886	6.90%	3.23%	0.22%
Long Term Debt (include, due in 1 yr.)	34,000,000	7.60%	45.76%	3.48%
Total	74,307,921			9.57%

#### Common Equity

Common Stock	\$22,629,147
Retained Earnings	16,786,861
Capital Stock Expense	(1,507,083)
Misc. Paid in Capital	(1,890)
Total	<b>\$</b> 37,907,035

#### Preferred Stock \$100 Par

Series		Amount Outstanding 12/31/97	Annual Issuance Expense	Annual Dividend Expense	Total Annual Cost	Effective Cost %
5.125%		1,034,600	0	53,023	53,023	5.13%
8.00%		1,407,000	Q	112,560	112,560	8.00%
8.0074		2,441,600	0	165,583	165,583	6.78%
ess: Capital Stock Expense	5.125%	12,784				
cas. Capital Grown Diff	8.00%	<u>27,930</u>				
	Subtotal	40,714				
	Total	2,400,886				6.90%

#### Long Term Debt

Series		Amount Outstanding 12/31/97	Annual Issuance Expense	Annual Interest Expense	Total Annual Cost	Effective Cost %
12 year Notes, due March 31, 2004	8.55% 6.75%	15,000,000 19,000,000	8,604 10.673	1,282,500 1,282,500	1,291,104 1,293,173	8.61% 6.81%
30 Year Note, due Nov 30, 2023 Total	6.73%	34,000,000	19,277	2,565,000	2,584,277	7.60%

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OFFICE OF THE SECRETARY

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FEDERAL ENERGY
REGULATORY
COMMISSION

Attachment E

**Cost Support** 

For Proposed Rates

Period 2: Effective June 1, 1999

Summary of Rates

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	<b>w</b> al
Fitchburg Gas and Electric Light Company	summary of Transmission Open Access Rates

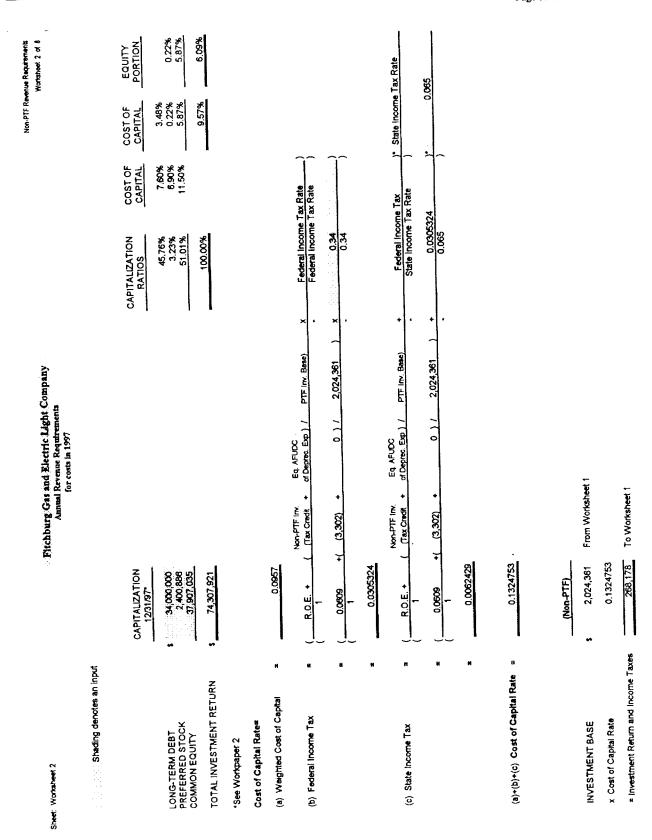
Proposed Period 2 1-Jun-99 \$624,122 FG&E OA Tariff, Second Revised Sheet No. 174 \$544.130 Attachment D and E, Workpaper 1 of 8 \$79,992	74,000 Attachment D and E, Workpaper 8 of 8 0 <u>0</u> 74,000	\$7.353 Revenue Requirement / Peak Load \$0.613 Annual Charge / 12 \$0.141 Annual Charge / 52 \$0.020 Annual Charge / 365		\$0.460 Firm Pt to Pt Charge * 75% \$0.106 Firm Pt to Pt Charge * 75% \$0.015 Firm Pt to Pt Charge * 75% \$0.630 Daily Charge / 24 * 1000
Proposed Period 1 1-Mar-98 \$624,122 \$115,963 \$508,159	74,000 0 0 74,000	\$1.567 \$0.131 \$0.030 \$0.004		\$0.098 \$0.023 \$0.003 \$0.134
Current Revenue Requirement Proposed Revenue Requirement Decrease in Revenue Requirement	FG&E Peak Load CP of All Firm Point-to-Point Contract Demand Reservation for Firm Pt-Pt Total	Schedule 7: Firm Point-to-Point Annual Charge \$/kW Monthly Charge \$/kW Weekly Charge \$/kW Daily Charge \$/kW	Schedule 8: Non-Firm Point-to-Point	Monthly Charge \$/kW Weekly Charge \$/kW Daily Charge \$/kW

\* Rates reflect a 25% discount off the Firm Point-to-Point rates

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Sheet Wortsheet 1		•	Fitchburg Gas and Electric Light Company Annual Revenue Requirements of Non-PTF Facilities for costs in 1997	ic Light Company of Non-PTF Facilities 1997	Non-PTE Rowman Requirements Workshoot 1 of 8
<u>∞</u>	Shading denotes an input	NEPOOL OA Tartif			
		Attachment F Reference	FGRE	Total	Reference
Line No.	INVESTMENT BASE	Section		1 100 1	Worksheet 3 line 1 column 5
-	Transmission Plant	(A)(1)(a)	4,236,176	4,430,118	Worksheet 3. line 2 column 5
2	General Plant	(A)(1)(b)	6,710	180	Worksheet 3, line 4 column 5
٣	Plant Held For Future Use	(A)(1)(c)	1 243 066	4.243.066	
4	Total Plant (Lines 1+2+3)		000,542,4	1	
•		(A)(1)(d)	1,805,209	1,805,209	Worksheet 3, line 7 column 5
മ	Accumulated Deprecation Taxes	(A)(1)(e)	739,960	739,960	Worksheet 3, line 10 column 5, Changed Formula to +, not -
D F	Les On Rescouled Debt	(A)(1)(A)	٥	0	Worksheet 3, line 11 countries
- 00	Other Regulatory Assets	(A)(1)(g)	289,838	289,838	WORSHOEL S, line 14 COOM
on	Net Investment (Line 4-5-6+7-8)		1,987,735	SS.'./SS.'.	
!		( <b>A</b> )(1)( <b>b</b> )	16,828	16,828	Worksheet 3, line 15 column 5
9	Prepayments	(4)(4)(1)	7 178	7,178	Worksheet 3, line 16 column 5
Ξ :	Materials o Supplies	(S)(3)	12,620	12,620	Worksheet 3, line 23 column 5
12	Cash Working Capital	(C) (A)			
13	Total Investment Base (Line 9+10+11+12)		2,024,361	2,024,361	
<del>=</del> i	. REYENUE REQUIREMENTS			020 170	Worksheet 2
7	Investment Return and Income Taxes	€ €	268,1/8	113 216	Worksheet 4, line 3 column 5
5	Depreciation Expense	Ð (	917:511	0	Worksheet 4, line 4 column 5
<b>9</b>	Amortization of Loss on Reacquired Lieux	<u>)</u> (	(3)3(5)	(3,302)	Worksheet 4, line 5 column 5
- 1	Investment Lax Credit	9 @	80,008	64,008	Worksheet 4, line 8 column 5
ž	Property I ax Experies	<u>(</u>	1,071	1,071	Worksheet 4, fine 17 column 5
5 5	Overdon & Maintanance Expense	0	78,148	78,148	Worksheet 4, and 13 column 5
7 2	Administrative & General Expense	£	22,811	22,811	Worksheek A, line 10 Column 5
ឧ	Transmission Related Integrated Facilities Charge	9	a ·	o (	Worksheet 7
8	Transmission Support Revenue	3	0	<b>.</b>	Worksheet 7
75	Transmission Support Expense	દ	0 1	<b>.</b>	Worksheet 7
52	Transmission Related Expense from Generators	Ĵ	0 1	<b>.</b>	
28	Transmission Related Taxes and Fees Charge	€ 3	<b>.</b>		
27	Revenue for ST Trans, Service Under NEPOOL Tariff	Ž (	<b>.</b>		
28	Transmission Rents Received from Electric Property	<u>0</u>			
53	Total Revenue Requirements (Line 14 thru 28)		544,130	544,130	

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Non-PTF Revenue Requirements Worksheet 3 of 8	FERC Form 1 Reference for col (1)	Line 1, Worksheet 5 Page 207.83g	Page 214	Page 219,23b Page 219,25b	Page 275.2k + 277.9k (d) Page 234.8c (d) Changed Formula	Page 111.65d	Page 232.30e Page 233.1f - 269.1f (d)	Page 110.46d*p.200.8.c/p.200.8.b	Page 227.8c	Worksheet 1, Line 20 Worksheet 1, Line 24 Worksheet 1, Line 24 × 45 / 360	
Fitchburg Gas and Electric Light Company	(5) = (3)*(4) Non-PTF Allocated	4,236,176 6,710 4,242,886	180	1,799,716 5,493 1,805,209	761,166 21,206 739,960	0	269,838 0 0 0 289,838	16,828	7,178	78,148 22,811 0 100,959 0,125 12,620	
tric Light Co	(4) Non-PTF Allocation Factor (b)	44.8586%	44.8586%	44.8586% 44.8586%	44.8586% 44.8586%	44.8586%	44.8586% 44.8586% 44.8586%	44.8586%	44.8586%		
irg Gas and Elec	(3) = (1)*(2) Transmission Allocated	9,443,402 14,959 9,458,361	94	4,011,976 12,245 4,024,221	1,696,811 47,274 1,744,085	0	0 646,115 0 646,115	37,513	16,001		
Fitch	(2) Wage/Plant Allocation Factors	1.4959% (a)		1.4959% (a)	13.4959% (c) 13.4959% (c)	13.4959% (c)	1.4959% (a) 13.4959% (c) 13.4959% (c)	1.4959% (a)			
	(1) Total	9,443,402 1,000,009	400	4,011,976 818,552	12,572,792 350,287	0	0 4,787,494 0 4,787,4	2,507,725	16,001		
Sheet: Worksheet 3	Shading denotes an input	<u>Transmission Plant</u> Transmission Plant General Plant Total (line 1+2)	Transmission Plant Held for Future Use	Transmission Accumulated Depreciation Transmission Accum. Depreciation General Plant Accum.Depreciation Total (line 5+6)	Transmission Accumulated Deferred Taxes Accumulated Deferred Taxes (281-283) Accumulated Deferred Taxes (190) Total (line 8+9)	Transmission loss on Reacquired Debt	Other Regulatory Assets FAS 106 FAS 106 Other Regulatory Liabilities (254.DK) Total (fine 12+13+14)	Transmission Prepayments	Transmission Materials and Supplies	Cash Working Capital Operation & Maintenance Expense Administrative & General Expense Transmission Support Expense Subtotal (line 19+20+21) Total (fine 22 * line 23)	(a) Worksheet 5 of 8, line 11 (b) Worksheet 5 of 8, line 3 (c) Worksheet 5 of 8, line 16 (d) Electric Only (Gas Portion Removed)
Sheet: Y	e e	- 70	4	406	a o Ç	Ξ	27 27 47 51	16	17	± ± 8 2 2 8 2 8 4 € 4 € 5 € 5 € 5 € 5 € 5 € 5 € 5 € 5 €	

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			Fitchb	Richburg Gas and Electric Light Company	ctric Light Co		Non-PTF Revenue Requirements Worksheet 4 of 8
Sheet: ¥	sheet: Worksheet 4		©		<del>(</del> \$		
	Shading denotes an input						
<u> </u>		(1) Total	Wage/Plant Allocation Factors	(3) = (1)*(2) Transmission Allocated	Non-PTF Allocation Factor (b)	(5) = (3)*(4) Non-PTF Allocated	FERC Form 1 Reference for col (1)
- 40	Decreciation Expense Transmission Depreciation General Depreciation Total (fine 1+2)	251.274 74.291	1.4959% (a)	251,274 1,111 252,385	44.8586% 44.8586%	112,718 498 113,216	Page 336.7b Page 336.9b
4	Amortization of Loss on Rescaulred Debt	0	13.4959% (c)	o	44.8586%	0	Page 117.58c
٠	Amerization of investment Tax Credits	\$4.533	13.4959% (c)	7,360	44.8588%	3,302	Page 266.8f
<b>∞</b> ~ ∞	Property Taxes. Transmission Property Taxes General Property Taxes Total (line 6+7)	1,057.272	13.4959% (c) 1.4959% (a)	142,688 0 142,688	44.8586% 44.8586%	64,008 0 64,008	Page 2621-263 (e) Page 262-263
e 5 t 55	Transmission Operation and Maintenance Operation and Maintenance Transmission of Electricity by Others - 4545 Load Dispatching - 4541 "Station Expenses & Rents - 4542 (454) O&M less lines 10, 11 & 12	2.192,765 2.018,595 0		2,192,765 2,018,555 0 174,210	0.448586 0.448586 0.448586 44.8586%	983,644 905,496 0 0 78,148	Page 321.100b Page 321.88b Page 321.84b Page 321.85b & .90b
4	Transmission Administrative and General Administrative and General as Typogry Insurance (9520) and Proporty Insurance (9520) and Conner Administrative Experime (9520) and Conner Advertistry Experime (9520) (9544) (211) (1	2863211 62386 60236 7,068 2,822,967 62,981 907	1.4959% (a) 13.4959% (c) 13.4959% (c) 13.4959% (c)	42,229 ) 8,500 ) 122 ) 122	44.8586% 44.8586% 44.8586% 44.8586%	18,943 3,813 55 0	Page 323.168b Page 323.156b Page 330 Page 323.162b
2 2	Total A&G (me 18 plus (19 thru 21)) Payroll Tax Expense	159,548	1.4959% (a)		44.8586%	1,071	Footnote (d)
	(a) Worksheet 5 of 8, line 11 (b) Worksheet 5 of 8, line 3 (c) Worksheet 5 of 8, line 16 (d) Payrol taxes FERC Form 1, page 263.1, 263.11 Federal Unemployment FCA Medicars State Unemployment	7 % T					
	MA Universal Health Payroll Taxes Capitalized (95,199)  Total  (a) Electric Only (Gas Portion Removed)  **Subtract Accounts #562 & #567 from O&M Expense to the extent that they include PTF Support Payments.	(95, (96) (95, (96) 159,548 LM Expense to the	To Line 23 extent that they in	Slude PTF Support	Раутеліз.		

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Non-PTF Revenue Requirements Worksheet 5 of 8		FERC Form 1 Reference		Workpaper 1 -Summary Page 207.53g			Page 354.19b Worksheet 6 of 8	Page 354.25b + Line 5 Page 354.24b Worksheet 6 of 8		Page 207.53g Worksheef 3, Line 2	Page 207.88g	
			FG&E	4,238,176 9,443,402	44.8586%		21,959 0 21,959	1,595,131 (27,200 0 1,467,931	1.4959%	9,443,402 14,959 9,458,361	70,083,144	13.4959%
Sheet: Worksheet 5	Shading denotes an input		Non - PTF Transmission Plant Allocation Factor	Non - PTF Transmission investment Total Transmission Investment	Percent Allocation (Line 1/Line 2)	Transmission Wages and Salaries Allocation Factor	Direct Transmission Wages and Salaries Affiliated Company Transmission Wages and Salaries Total Transmission Wages and Salaries (Line 4 + Line 5)	Total Wages and Salaries Administrative and General Wages and Salaries Affiliated Company Wages and Salaries less A&G Total Wages and Salaries net of A&G (Line 7 - 8 + 9)	Percent Allocation (Line 6/Line 10)	Plant Allocation Factor Total Transmission Investment plus Transmission-Related General Plant (Line 2 of Wkst. 3) = Revised Numerator (Line 12 + Line 13)	Total Plant in Service	Percent Allocation (Line 14 / Line 15)
Sheet: W		Line So.		- 7	ю		4 m Ø	r & 6 0t	£	5 t <del>4</del>	15	16

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Non-PTF Revenue Requirements Worksheet 6 of 8

Sheet: Worksheet 6

## Affiliated Company Wages and Salaries

Shading denotes an input

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Non-PTF Revenue Requirements Worksheet 7 of 8

Participant BECO			_		
Participant BECO		7.53E	Ų,	2	
BECO	PTF Supporting Facilities	Revenues (a)	Expenses (b)	Revenues (a)	Expenses (b)
	345 kV Sherman - Medway 336 line				
	115 kV Somerville 402 Substation				
	115/345 kV North Cambridge 509 Substation				
	345 kV Golden Hills -Mystic 389 (x&y) line				
	West Medway 345 kV breaker				
	115 kV Millbury-Medway 201 line				
	HQ Phere II - AC in MA	0	0	0	0
	345 kV *stabilizer* 342 line				
	345 kV Walpole - Medway 325 line				
	345 kV Carver - Walpote 331 line				
	345 kV Jordan Rd - Canal 342 line				
CEC	Second Canal line				
	345 kV Pilgrim-Bridgewater - 355 fine				
	345 kV Myles Standish - Canal 342 line				
CMP	345 tV Buxton-South Gorham 388 line				
	115 kV Wyman 164-167 lines				
	115 kV Maine Yankes transmission				
EUA	345 kV Carver - Walpole 331 line				
	345 kV Medway - Bridgewater 344 Line		List the second		
	Northern Rhode Island transmission				
NEP	Chester SVC				
	Comerford 115 kV Substation				
	345 kV Sandy-Tewkebury 337 line				
	345 kV Tewkebury-Woburn 338 line				
	115 kV Tewksbury - Woburn M139 line				
	115 kV Tewksbury - Woburn N140 line				
	Moore 115 kV Substation	ľ	C	C	
	HQ Phese II - AC in MA	0	0	>	
	345 kV Golden Hills-Mystic 349 line				
	345 kV NH/MA border-Tewksbury 394 line				
	115 kV Read - Washington V148 line				
D.Z.	345 kV 363, 369 and 394 Seabrook lines				
	Fairmont 115 kV Substation				
	345 kV Millatone-Manchester 310 line				
	Ul Substations				
	Black Pond			ľ	

Amount by which Support Expense exceeds Support Revenues (To Worksheet 3, Line 21, Column 5)

4/16/2002

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LNS Rate Workpaper 8 of 8			97 DEC '97	22 0 19:00		54 74
			76. VON	25 18:00		12 CP L
	c		0CT '97	29 18:00		Average
	y Syster		SEP '97	2 14:00	70	Annual EGRE System Average 12 CP Load
	Summary of Fitchburg Gas and Electric Light Company System Monthly Coincident Peaks for 1997 (Megawatts)		AUG '97	11 17:00	77	Annual F.C.
	ric Light aks for 1 )		70L '97	15 12:00	84	
	itchburg Gas and Electric Light Cor Monthly Coincident Peaks for 1997 (Megawatts)		76. NUL	26 11:00	74	
	urg Gas a Ny Coinc (M			6 18:00	99	
	f Fitchbu Montl		APR '97 MAY '97	2 20:00	88	
	mmary o	prt	MAR '97	14 19:00	7.4	
	S	Shading denotes an input	FEB '97	4 18:00	3 <u>8</u>	
		Shading de	76, NAL	Day 8 Hour 18:00	78	
sheet 8			·	Day Hour	<b>A</b>	
Sheet: Worksheet 8					FG&E	

NOTE: Numbers represent FERC Form 1 Pages 401/401A coincident peaks.

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LNS Rate Workpaper 8 of 8

Summary of Fitchburg Gas and Electric Light Company System Monthly Coincident Peaks for 1997 (Megawatts)

		Shading c	ading denotes an input	input									
		76, NAC		MAR '97	APR '97	MAY '97	76, NO.C	JUL '97	AUG '97	26, d3S	OCT '97	FEB 97 MAR 97 APR 97 MAY 97 JUN 97 JUL 97 AUG 97 SEP 97 OCT 97 NOV 97	DEC '97
	Day Hour	8 18:00		14 19:00	20:00	6 18:00	26 11:00	15 12:00	11 17:00	2 14:00	29 18:00	25 18:00	22 19:00
7 38 3		78	76	74	8	99	74	81	π	70	71	77	77
							•						
									Annual FG	&E System	Average 1	Annual FG&E System Average 12 CP Load	74

NOTE: Numbers represent FERC Form 1 Pages 401/401A coincident peaks.

Sheet: Worksheet 8

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Summary	June 1, 1999
Workpaper 1 -	For Rates Effective

Detail of Transmission Plant (per FERC's Seven Part T&D Facility Test), Page 4 of 4	Detail of Transmission Plant (per FERC's Seven Part T&D Facility Test), Page 4 of 4 Detail of PTF Transmission Plant, Incorporating effects reclassification of PTF to Non-P	
12/31/97 Balances \$ 5,815,064	\$ 138,492 \$ 1,440,396	4.236,176
\$	~ ~	49
Total Transmission Plant	Less: Transmission Plant (Joint Owned Units) (1) \$ 138,492 Pool Transmission Facilities Plant \$ 1,440,396	Non-Dool Transmission Facilities Plant

(1) External to FG&E Transmission System

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#### Workpaper 1 Detail of Transmission Plant as of 12/31/97 (Per FERC's Seven Part T&D Facility Test)

		(Per FERC's Seve	n Pan I GU raci	illy Fest)			
			Amount	Amount	Total Plant	Transmission	Transmission
Category	<u>Account</u>	Description	<u>Added</u>	Retired	Balance	Percent	Plant Balance
Flagg Pond		5 4 4 5 4 4 5 4 4 5 4 4 5 4 4 5 4 5 4 5	\$1,272,305.18	\$0.00	\$1,272,305.18	100%	\$1,272,305.18
	353 353	Purchased from New England Power on 6/1/77 Transfer acquisition costs to acct 2-353-99	(\$84,274,29)	\$0.00	(\$84,274.29)	100%	(\$84,274.29)
	353	Retire 2 600 amp OCB plus installation	\$0.00	\$21,975.62	(\$21,975.62)	100%	(\$21,975.62)
	353	Install 115kv breaker status for REMVEC	\$14,556.40	\$0,00 \$12,809.54	\$14,556.40 \$924,949.40	100% 100%	\$14,556.40 \$924,949.40
	<b>3</b> 53	See F-2172 Install 2 1000w Lucalox Floodlights near control shack	\$937,758.94 \$2.938.12	\$0.00	\$2,938.12	100%	\$2,938.12
	353 353	Install Potential Transformers	\$21,174.57	\$0.00	\$21,174.57	100%	\$21,174.57
	353	Retire PT	\$0.00	\$4,628.41	(\$4,628.41)	100% 100%	(\$4,628.41) \$41,916.83
	353	Metering	\$41,916.83 \$17,310.44	\$0.00 \$0.00	\$41,916.83 \$17,310.44	100%	\$17,310,44
	353 353	Install #27 & #28 airbreak switch on #2 Feeder Retire #27 & #28 airbreak switch on #2 Feeder	\$0.00	\$5,762.36	(\$5,762.36)	100%	(\$5,762.36)
	353 353	Adjust to above entry	\$183.25	\$0.00	\$183.25	100%	\$183.25
	353	Install PT on 02 Line	\$8,435.83	\$0.00	\$8,435.83 (\$21,174.57)	100% 100%	\$8,435.83 (\$21,174.57)
	353	Retire PT on 02 Line	\$0.00 \$1,868.89	\$21,174.57 \$0.00	\$1,868.89	100%	\$1,868.89
	353 353	Install 2016 of 4/0 st bare copper Install 50' of 2" PVC Pipe	\$4,033.47	\$0.00	\$4,033.47	100%	\$4,033.47
	353	785' of 4/0 st 600 volt	\$0.00	\$1,198.75	(\$1,198.75)	100%	(\$1,198.75)
	353	50' of 4/0 wire	\$0.00	\$31.55	(\$31.55)		(\$31.55) (\$1,310.88)
	353	760' of 4/0 hard drawn wire	\$0.00 \$0.00	\$1,310.88 \$106.74	(\$1,310.88) (\$106.74)		(\$106.74)
	353 353	50' of 4/0 wire 965' of 4/0 wire	\$0.00	\$2,876.75	(\$2,876.75)	100%	(\$2,876.75)
	353	50' of 2" PVC Pipe	\$0.00	\$164.50	(\$164.50)		(\$164.50)
	353	GE 69kv Bushing in OCB s/n 0139A4928-201	\$0.00	\$14,231,56 \$0.00	(\$14,231.56) \$2,405.57	100% 100%	(\$14,231.56) \$2,406.57
	353	69kv 1200amp bushing in OCB Data Star Recorders	\$2,405.57 \$3,780.00	\$0.00	\$3,780.00	100%	\$3,780.00
	353 353	Installed Data Star Recorder Software Level #2	\$750.00	\$0.00	\$750.00	100%	\$750.00
	353	Payroll & overheads for above install	\$1,014.38	\$0.00	\$1,014.38	100%	\$1,014.38
	353	Recorder Tape System GE	\$0.00	\$5,300.00	(\$5,300.00) (\$637.20)		(\$5,300.00) (\$637.20)
	353	Universal Mag Tape Cartridges	\$0.00 \$5,950.00	\$637,20 \$0,00	\$5,950.00	100%	\$5,950.00
	353 353	Watt/Var Transducer Vollt Transducer	\$185.00	\$0.00	\$185.00	100%	\$185.00
	353	Shipping & Handling	\$34.92	\$0.00	\$34.92	100%	\$34.92
	353	500' 4/C #12 AWG Control Cable	\$1,142.10	\$0.00 \$0.00	\$1,142.10 \$41.39	100% 100%	\$1,142.10 \$41.39
	353	50' 1/2 watt precision reistors	\$41,39 \$86,45	\$0.00	\$86.45		\$86.45
	353 353	350' T&B Stakon Terminals 69' Copper Wire	\$10.35	\$0.00	\$10.35	100%	\$10.35
	353	Cable Tie	\$17.55	\$0.00	\$17.55		\$17.55
	353	Misc Parts	\$52,76 \$368,80	\$0.00 \$0.00	\$52.76 \$368.80		\$52.76 \$368.80
	353 353	Labor for fixing recorder  Labor for wiring	\$124.20	\$0.00	\$124.20		\$124.20
	353	Install GETEC Telemetering to REMVAC (Liabilities)	\$422.31	\$0.00	\$422.31		\$422.31
	353	Overheads	\$6,638.54	\$0.00 \$0.00	\$6,638.54 \$8,030.61		\$6,638.54 \$8,030.61
	353	Payroll	\$8,030.61 \$4,230.71	\$0.00 \$0.00	\$4,230.71		\$4,230.71
	353 353	Bristol DPC 333010A computer Bristol SLC 371140A Recorders	\$5,771.41	\$0.00	\$5,771.41	100%	\$5,771.41
	353	Bristol Power Supply	\$515.05	\$0.00	\$515.05		\$515.05
	353	Labor to set up Bristol	\$2,355.00	\$0.00 \$0.00	\$2,355.00 \$9,512.00		\$2,355.00 \$9,512.00
	353	Spare Interrupter Assembly for 115kv Circuit breaker Retire Westinghouse auto transformer	\$9,512.00 \$0.00	\$152,101.77	(\$152,101.77		(\$152,101.77)
	353 353	Redisgn Rewind & Rebuild 30/40/50 MVA West,	\$0.00	\$0.00	\$0.00	100%	\$0.00
	353	Auto Transformer s/n 34891 includes all charges	\$514,460.75	\$0.00	\$514,480.75		\$514,480.75 \$200,032.04
	353	Purch used Auto Transformer 24/40 mva Magntek	\$200,032.04 (\$97,766.02)	\$0.00 \$0.00	\$200,032.04 (\$97,766.02		(\$97,766.02)
	353 353	For future costs assoc, w/ additions 69kv connections Fused Disconnect	\$0.00	\$505.26	(\$505.26	•	(\$505.26)
	353	Replace Fused Disconnect	\$434.21	\$0.00	\$434.21		\$434.21
	353	Install & purch EM-GRO Air Compressor	\$1,273.97	\$0.00	\$1,273.97 \$30,233.66		\$1,273.97 \$30,233.66
	353	Install Deadend Structure 3-arrestors & 6-bushings Construct 115 Kv facilities & connect spare transformer	\$30,233.66 \$0.00	\$0.00 \$0.00	\$0.00		\$0.00
	353 353	in place of failed #1 autotrans.	\$237,601.84	\$0.00	\$237,601.84	100%	\$237,601.84
	353	Repair and rewind of 115-69 KV #1 Autotransformer	\$0.00	\$0.00	\$0.00		\$0.00 \$335,776.00
	353	including uprating to a rated capacity of 60/80/100 MVA	\$335,776.00 (\$321,696.66)	\$0.00 \$0.00	\$335,776.00 (\$321,696.66		(\$331,696.66)
	353 353	Insurance Recovery less deductible of \$25K Lightning arrestors, delivery and testing	\$6,840.09	\$0.00	\$6,840.09	9 100%	\$6,840 09
	353	60/80/100 MVA 115-69kV Autotransformer	\$544,772.08		\$544,772.00		\$544,772.08
	353	Installation cost for above ,	\$42,610.39		\$42,610.35 \$7,125.43		\$42,610.39 \$7,125.43
	353	69kv Post Insulators	\$7,125.43	\$8,000.00	(\$8,000.0		(\$8,000,00)
	<b>3</b> 53	Current Transformers		\$3,555.55	(	•	
	Subtote	ıl .					\$3,540,549.05
Flagg Pon			\$24,143.99	\$0.00	\$24,143.9	9 100%	\$24,143.99
	352 Subtota		<u></u>				\$24,143.99
		a.					
\$ummer :	Street 353	705' Chain Link Fence	\$3,261.00	\$0.00	\$3,261.0		\$3,261.00
	353	159' Chain Link Fence	\$1,150 43	\$0.00	\$1,150.4		\$1,150.43 \$1,610.00
	353	4 - Relay GE	\$1,610.00 \$1,592.00	\$0.00 \$0.00	\$1,610.0 \$1,592.0		\$1,592.00
	353 353	6 - GE Potential Transformers 3 - Switches for Control Power	\$1,392.00	\$0.00	\$164 0	o 100%	\$164.00
	353	Conduit & Control Wiring	\$5,751.00	\$0.00	\$5,751.0	0 100%	<b>\$</b> 5,751.00

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#### Detail of Transmission Plant as of 12/31/97 (Per FERC's Seven Part T&D Facility Test)

		•	Amount	Amount	Total Plant	Transmission	Transmission
Catagory	Account	Description	<u>Added</u>	Retired	Balance	Percent	Plant Balance
Category	353	Conductors & Insulators	\$804.00	\$0.00 \$0.00	\$804.00 \$892.00	100% 100%	\$804.00 \$892.00
	353	Transformer Foundation	\$892.00 \$892.00	\$0.00	\$892 00	100%	\$892.00
	353 353	Switchgear Foundation Reactor Foundation	\$892.00	\$0.00	\$892.00	100%	\$892.00
	353	Neutral Resistor Foundation	\$446.00 \$66.743.00	\$0.00 \$0.00	\$446.00 \$66,743.00	100% 100%	\$446.00 \$66,743.00
	353	General Electric 21000/28000/35000MVA Power Transforme 3 - GE 600 Amp 300 Volt outdoor Reactor	\$66,743.00 \$4,674.00	\$0.00	\$4,674.00	100%	\$4,674.00
	353 353	2 - GE 1200 amp 14.4KV oil Circuit Breaker	\$10,731.00	\$0.00	\$10,731.00	100%	\$10,731.00
	353	37 - Disconnect Switches	\$6,014.00	\$0.00	\$6,014.00	100% 100%	\$6,014.00 \$3,009.00
	353	24 - Tandem Transfer Switches	\$3,009.00 \$3,215.00	\$0.00 \$0.00	\$3,009.00 \$3,215.00	100%	\$3,215.00
	353 353	24 - 15kv valve Lightning Arresters Grounding Material Installed	\$1,601.00	\$0,00	\$1,601.00	100%	\$1,601.00
	353	Bus Connections 13.8kv Installed	\$6,554.76	\$0.00	\$6,554.76	100% 100%	\$6,554.76
	353	GE Neutral Resistor	\$10,825.00 \$260.00	\$0.00 \$0.00	\$10,825.00 \$260.00	100%	\$10,825.00 \$260.00
	353 353	GE Oil Circuit Breaker GE Protected Aisle Switchgear	\$19,645.00	\$0.00	\$19,645.00	100%	\$19,645.00
	353	18 - Poles installed Terminations of 13.8kv Feeder in S/S	\$1,571.00	\$0.00	\$1,571.00	100%	\$1,571.00
	353	62 - Crossams	\$918,00 \$2,472,00	\$0.00 \$0.00	\$918.00 \$2,472.00	100% 100%	\$918.00 \$2,472.00
	353	200' - 336.4MCM Alum wire 12 - Anchor guys	\$311.00	\$0.00	\$311.00	100%	\$311.00
	353 353	4 - 600 amp Oil Circuit Breakers 250 MBA 14.4kv	\$20,433.00	\$0.00	\$20,433.00	100%	\$20,433.00
	353	2 - Recloser installed	\$11,622.00	\$0.00	\$11,622.00	100% 100%	\$11,622.00 \$88,00
	353	1 - 18' Switch Stick	\$88.00 \$311.00	\$0.00 \$0.00	\$88.00 \$311.00	100%	\$311.00
	353 353	2 - Flood lights 2 - Indicators on cooling fans of transformer & oil pump	\$75.00	\$0.00	\$75.00	100%	\$75.00
	353	Foundation for OCB	\$1,661.00	\$0.00	\$1,661.00	100%	\$1,661.00
	353	Foundation for Steel Structure	\$2,545.00 \$961.00	\$0.00 \$0.00	\$2,545.00 \$961.00	100% 100%	\$2,545.00 \$961.00
	353 353	Foundation for Control House 3 - GE 2500mva OCB	\$37,901.00	\$0.00	\$37,901.00	100%	\$37,901.00
	353	Steel Structure	\$9,153.00	\$0.00	\$9,153.00	100%	\$9,153.00
	353	Control House	\$2,990.00 \$894,00	\$0.00 \$0.00	\$2,990.00 \$894.00	100% 100%	\$2,990.00 \$894.00
	353 353	Grounding 3 - Control Panels	\$9,410.00	\$0.00	\$9,410.00	100%	\$9,410.00
	353	Conduit & Wiring	\$2,569.00	\$0.00	\$2,569.00	100%	\$2,569.00
	353	Supervisory Equipment	\$12,037,00 \$3,325.00	\$0.00 \$0.00	\$12,037.00 \$3,325.00	100% 100%	\$12,037.00 \$3,325.00
	353 353	Additional Charges 69ky Bus Insulators & Connectors	\$5,763.00	\$0.00	\$5,763.00	100%	\$5,763.00
	353	5 - 69kv 1200 amp TPST	\$11,228.00	\$0.00	\$11,228.00	100%	\$11,228.00
	<b>3</b> 53	23 - 69kv 600 amp Disconnect Switch	\$7,682.00	\$0.00 \$0.00	\$7,682.00 \$3,682.00	100% 100%	\$7,682.00 \$3,682.00
	353	9 - 69kv Lightning Arrestors	\$3,682.00 \$2,810.00	\$0.00	\$2,810.00	100%	\$2,810.00
	353 353	3 - 69kv Capacitor Devices Foundation for OCB	\$777.00	\$0.00	\$777.00	100%	\$777.00
	353	Conduit Connection installed	\$509.00	\$0.00	\$509.00		\$509.00
	353	Control Panel	\$2,992.00 \$1,303.00	\$0.00 \$0.00	\$2,992.00 \$1,303.00		\$2,992.00 \$1,303.00
	353 353	Termination for #08 Line Overheads	\$4,416.00	\$0.00	\$4,416.00	100%	\$4,416.00
	353	1 - 69kv OCB	\$16,347.00	\$0.00 \$0.00	\$16,347.00 \$670.00		\$16,347.00 \$670.00
	353	Overheads 2 - Undertrequency Relays	\$670.00 \$2,249.00	\$0.00	\$2,249.00		\$2,249.00
	353 353	Foundation	\$1,652.00	\$0.00	\$1,652.00	100%	\$1,652.00
	353	69kv Bus Insulators & Connectors	\$7,183.90	\$0.00 \$0.00	\$7,183.90 \$7,083.00		\$7,163.90 \$7,063.00
	353	Steel Structure Grounding	\$7,083.00 \$538.00	\$0.00	\$538.00		\$538.00
	353 353	Control Panels	\$9,067.00	\$0.00	\$9,067.00	100%	\$9,067.00
	<b>3</b> 53	Conduit & Wiring	\$875.00	\$0.00 \$0.00	\$875.00 \$6,128.00		\$875.00 \$6,128.00
	353	2 - 69kv Air Breek Switches 9 - 69kv 600 amp Disconnect Switch	\$6,126.00 \$4,037.00	\$0.00	\$4,037.00		\$4,037,00
	353 353	1 - 69ky OCB	\$18,907.00	\$0.00	\$18,907.00	100%	\$18,907.00
	353	6 - 69kv Lightning Arrestors	\$4,362.00	\$0.00	\$4,362.00		\$4,362.00
	353	1 - Electric Heater in 13.8KV Switchgear cabin	\$260.12 \$4,093.17	\$0.00 \$0.00	\$260.12 \$4,093.17		\$260.12 \$4,093.17
	353 353	6 - Bushings 2000amp 13.8kv high volt for roof of building 3 - Bushing on GE Oil Circuit Breakers on #3 & #40 feeder	\$1,257.58	\$0.00	\$1,257.56	100%	\$1,257.58
	353	Transformer Replacement	\$937.01	\$0.00	\$937.01		\$937.01
	353	Transformer Lightning Arrester replaced	\$399.55 \$96.019.79	\$0.00 \$0.00	\$399.55 \$96,019.79		\$399.55 \$96,019.79
	353 353	2 - 69kv OCB for #01 Line Supervisory Control Recloser Indicator	\$2,898.60	\$0.00	\$2,898.60		\$2,898.60
	353	Install 540' of #12-7 conductor to Robin Hood Park	\$841.90	\$0.00	\$841.90		\$841.90
	353	Nominal Capacity Lead Antimony Battery	\$1,943.92	\$0.00 \$0.00	\$1,943.92 \$15,085.31		\$1,943.92 \$15,085.31
	353	3 - 600 amp 13.8kv outdoor reactors 6 - Bushings for #40-10 3 oil circuit breaker	\$15,085.31 \$3,096.35	\$0.00 \$0.00	\$3,096.3		\$3,096,35
	353 353	FERC Adjustment	(\$79.00)	\$0,00	(\$79.00	0) 100%	(\$79.00)
	353	Install 2'x2' plywood board incontrol house	\$618.78	\$0.00 \$0.00	\$618,78 \$75,309.6°		\$618.78 \$75,309.61
	353	Capacitor Bank 36 - 200Kvar Cap Units Additions	\$75,309.61 \$10,968.78	\$0.00	\$10,968.78		\$75,309.61 \$10,968.78
	353 353	Additions	\$11,232.45	\$0.00	\$11,232,45	5 100%	\$11,232.45
	353	Purch of MoGraw Edison UCR Oil Switch	\$4,169.15	\$0.00	\$4,169,15		\$4,169,15 \$785.20
	353	2 - Installed 69kv Bus Insulator	\$785.20 \$3,225.84	\$0.00 \$0.00	\$785.2i \$3,225.8		\$785.20 \$3,225.84
	353 353	8 - Yuasa Epide batteries for DC Supply Install stage Regulator & Nitro tanks to transformer	\$3,223.64 \$845.22	\$0.00	\$845.2	2 100%	\$845.22
	353	Remove & install new #2 Capacitor Switch	\$691.47	\$0.00	\$691.4		\$691.47
	353	Bar Gate installation	\$2,440.00		\$2,440.0 \$6,455.8		\$2,440.00 \$6,455.87
	353	Disconnect Switches Disconnect Switches	\$6,455.87	\$975.24	\$0,400 0 (\$975.2		(\$975.24)
	353 353	Pin Insulator	\$946.93	3	\$946.9	3 100%	\$946.93
	353	Epoxiators	\$2,113.14		\$2,113.1	4 100%	\$2,113.14

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#### Detail of Transmission Plant as of 12/31/97 (Per FERC's Seven Part T&D Facility Test)

		(Fer I ENC 3 Seven	an rub ruc	y . 2017			
			Amount	Amount	Total Plant	Transmission	Transmission
Category	Account	Description	<u>Added</u>	Retired	Balance	Percent	Plant Balance
	-						\$637,815.59
	Subtotal						***************************************
#01 & #02 Li	nes					*****	*********
	356	02 Line conductor 1969 556.7 MCM	\$34,547.61	\$0.00 \$0.00	\$34,547,61 \$139,411,07	100% 100%	\$34,547.61 \$139,411.07
	356	01 Line conductor 1973 556.7 MCM	\$139,411.07 \$9,919.24	\$0.00 \$0.00	\$9.919.24	100%	\$9,919.24
	356	02 Line shield wire 1969 2 wires - 3 No. 6 01 Line shield wire 1973 1 wire - 3 No. 6	\$12,961.62	\$0.00	\$12,961.62	100%	\$12,961.62
	356	Of the shed wie 1313 This 31th.	*				
	Subtotal						\$196,839.54
#01 & #02 L	ine Poles s	nd Xarms					
	355	02 Line poles 1969 (itemized list GHH)	\$221,574.99	\$0.00	\$221,574.99	100%	\$221,574.99
	355	01 Line poles 1969 (itemized list GHH)	\$341,628.84	\$0.00	\$341,628.84	100%	\$341,628.84
							\$563,203.83
	Subtotal						•
Electric Sta			\$146.57	\$0.00	\$146.57	100%	\$146.57
	353	Special Transformer Inclosure Fence	\$506.71	\$0.00	\$506.71	100%	\$506.71
	353 353	Concrete Mat for transformer	\$980.23	\$0.00	\$980.23	100%	\$980.23
	353	5000kva GE 3 Phase transformer	\$15,568.02	\$0,00	\$15,568.02	100%	\$15,568.02
	353	Install Transformer	\$1,727.22	\$0.00	\$1,727.22	100% 100%	\$1,727.22
	353	Reinforce foundation	\$3,271.47	\$0.00 \$0.00	\$3,271.47 \$868.20	100%	\$3,271.47 \$868.20
	<b>3</b> 53	155' - fence	\$868.20 \$1,859.53	\$0.00	\$1,859.53	100%	\$1,859.53
	353 353	13kv cable connections to switchgear 5000kva GE 3 Phase transformer	\$17,995.96	\$0.00	\$17,995.96	100%	\$17,995.96
	353	Foundation	\$4,086.42	\$0.00	\$4,086.42	100%	\$4,066.42
	353	Install Transformer	\$900.53	\$0.00	\$900.53	100%	\$900 53
	353	13.8kv cable connections to switchgear	\$3,854.34	\$0.00 \$0.00	\$3,854.34 \$10,797.32	100% 100%	\$3,854.34 \$10,797.32
	353	5 kv bus duct installed Eastern Fence 12' double drive gate & posts	\$10,797.32 \$149.00	\$0.00	\$149.00	100%	\$149.00
	353 353	69kv Power Transformer & Foundation	\$101,768.00	\$0.00	\$101,768.00	100%	\$101,768.00
	353	Gaty Steel Terminating Structure	\$8,099.00	\$0.00	\$8,099.00	100%	\$8,099.00
	353	Ins & misc connections installed	\$733.00	\$0.00	\$733.00 \$383.00	100% 100%	\$733.00 \$282.00
	353	3x8 Lighted Sign	\$282.00 \$52,613.25	\$0.00 \$0.00	\$282.00 \$52,613.25	100%	\$52,613.25
	353 353	Additional 1800 Kvar of capacitors in bank Auxiliary Currenttransformer	\$2,104.00	\$0.00	\$2,104.00	100%	\$2,104.00
	353	West, differential relays	\$348.00	\$0.00	\$348.00	100%	\$348.00
	353	Lockout & auxiliary relays	\$1,447.00	\$0.00	\$1,447.00	100%	\$1,447.00
	353	15 kv current Transformers	\$1,260.00	\$0.00 \$0.00	\$1,260.00 \$669.00	100% 100%	\$1,260.00 \$669.00
	353	Annunciators installed	\$669.00 \$3,763.00	\$0.00	\$3,763.00	100%	\$3,763.00
	353 353	13ky Potential transformer Central Wiring	\$4,074.00	\$0.00	\$4,074.00		\$4,074.00
	353	West 450kva Current Limiting reactor	\$6,988.00	\$0.00	\$6,988.00		\$6,988.00
	353	Change range of Speedomax Leed & Northrup Recorder	\$365.00	\$0.00	\$365.00		\$365.00
	<b>3</b> 53	GE Auxiliary transformer & Relays	\$3,295.00	\$0.00 \$0.00	\$3,295.00 \$1,378.00		\$3,295.00 \$1,378.00
	<b>35</b> 3	Speedomax Recorder Leeds & Northrup	\$1,378.00 \$457.00	\$0.00	\$457.00		\$457.00
	353 353	Thermal Converter Parts to change range of thermal converter	\$1,169.00	\$0.00	\$1,169.00		\$1,169.00
	353	Converting range on Speedomax	\$333.00	\$0.00	\$333.00		\$333.00
	353	Converting range on Speedomax	\$288.00	\$0.00 \$0.00	\$288.00 \$332.00		\$288.00 \$332.00
	353	Converting range on Speedomax  Amplifier Leads & Northrup to be used with Speedomax	\$332.00 \$158.00	\$0.00	\$158.00		\$158.00
	353 353	Supervisory Equip installed	\$4,452.00	\$0.00	\$4,452.00		\$4,452.00
	353	Additional charges for above	\$1,230 00	\$0.00	\$1,230.00		\$1,230.00
	353	Capitalized Overheads for above	\$248.00	\$0.00	\$248.00		\$248.00 \$5.667.00
	353	Underground system improvement	\$5,667.99 \$58,844.30	\$0.00 \$0.00	\$5,667.99 \$58,844.30		\$5,667.99 \$58,844.30
	353 353	Install of a 13.8kv Bus between #6 & Bus #2 Replace Lead Calcium Battery	\$7,965.19	\$0.00	\$7,965.19		\$7,965.19
	353	Purch Power Supply for Tone Equipment	\$413.74	\$0.00	\$413.74	100%	\$413.74
	500						
	Subtota	<b>l</b>					\$333,455.99
Electric 51	tation Line 356	Trans Line from Electric Station	\$5,604.00	\$0.00	\$5,604.00	100%	\$5,604.00
	356	Trans Line from Electric Station	\$15,011.00	\$0.00	\$15,011.00		\$15,011.00
	355	Trans Line from Electric Station Allocation (Estimated)	\$36,342.86	\$0.00	\$36,342.86	100%	\$36,342.86
							\$56,957.86
	Subtota	ll .					***************************************
Land			ec eco of	\$0.00	\$6,663.35	100%	\$8,663.35
	350 350	Cost of Land purchased from New England Power Co.  Acquisition Costs for land at Flagg Pond & Beech St. Subs	\$6,663.35 \$817.70	\$0.00	\$817.76		\$817.70
	350	Transmission Land #01, 02 & 06 Lines	\$78,545.00	\$0.00	\$78,545.00		\$78,545.00
	350	Transmission ROW #01, 02 & 06 Lines	\$144,391.00	\$0.00	\$144,391.0		\$144,391.00
	351	Clearing on Line #01 Flagg Pond to Summer St. S/S	\$6,854.38	\$0.00	\$6,654.3		\$6,654,38 \$1,381.92
	351	Install gate at both ends of 01 & 02 tap	\$1,381.92 \$4,707.00	\$0.00 \$0.00	\$1,381.9 \$4,797.0		\$1,381.92 \$4,797.00
	350	Off Summer St. Fitchburg Crushed Stone for Summer St. S/S yard	\$4,797.00 \$2,890.00	\$0.00	\$2,890.0		\$2,890.00
	350 350	Grading for Summer St. S/S yard Grading for Summer St. S/S	\$528.00	\$0.00	\$528.0		\$528 00
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#### Detail of Transmission Plant as of 12/31/97 (Per FERC's Seven Part T&D Facility Test)

	<u>Account</u> Subtotal	Description	Amount <u>Added</u>	Amount Retired	Total Plant <u>Balance</u>	Transmission <u>Percent</u>	Transmission Plant Balance \$246,668.35
NEPCo Acqui	sttion Cost 352 353		\$4,018.08 \$122,600.09			61% °	\$2,441.52 \$74,495.91 \$76,937.43
JOINT OWNE Millstone III Wyman#4 New Haven	D UNITS 352 353 355 356 356 352 353 352 353 352 353		\$11,383,84 \$50,261,65 \$13,202,36 \$3,302,94 \$0,00 \$4,636,19 \$0,00 \$55,704,98			100% 100% 100% 100% 100% 100% 100%	\$11,383,84 \$50,261,66 \$13,202,36 \$3,302,94 \$0,00 \$4,636,19 \$0,00 \$55,704,98
G	rand Total					Total	\$5,815,064

<sup>\* 61%</sup> is the ratio of transmission plant as defined in this workpaper, to transmission plant as defined in Dec 31, 1997 FERC Form 1 filing, page 207 line 53. NEPCo acquisition costs are being allocated in the same percentage as facilities being allocated between transmission and distribution.

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#### Workpaper 1 Detail of PTF Transmission Plant as of 12/31/97

		Incorporating effects of reclassification	of PTF to Non-P	TF effective	June 1, 199	9	
		moorporuming of the second	Amount	Amount	Total Plant	PIF	PTF
Category	Account	<u>Description</u>	<u>Added</u>	Retired	Balance	Percent	Plant Balance
Flagg Pond						4004/	*****
1 100 2 1 0 11 0	352	Structures and Improvements	\$24,143.99	\$0.00	\$24,143.99	100%	\$24,143.99
	353	Purchased from New England Power on 6/1/77	\$1,272,305.18	\$0.00	\$1,272,305.18		\$414,449 05
	353	Transfer acquisition costs to acct 2-353-99	(\$84,274.29)	\$0.00	(\$84,274.29)		(\$27,452.06)
	353	Retire 2 600 amp OCB plus installation	\$0.00	\$21,975.62	(\$21,975.62)	100%	(\$21,975.62)
	353	Install 115kv breaker status for REMVEC	\$14,556.40	\$0.00	\$14,556.40	100%	\$14,556.40
	353	See F-2172	\$937,758.94	\$12,809.54	\$924,949.40	100%	\$924,949.40
	353	Install 2 1000w Lucalox Floodlights near control shack	\$2,938.12	\$0.00	\$2,938.12	100%	\$2,938.12
	353	Install Potential Transformers	\$21,174.57	\$0.00	\$21,174.57	100%	\$21,174.57
	353	Retire PT	\$0.00	\$4,628.41	(\$4,628.41)	100%	(\$4,628.41)
	353	Metering	\$41,916.83	\$0.00	\$41,916.83	100%	\$41,916.83
	353	Install 2016 of 4/0 st bare copper	\$1,868.89	\$0.00	\$1,868.89	100%	\$1,868.89
	353	Install 50' of 2" PVC Pipe	\$4,033.47	\$0.00	\$4,033.47	100%	\$4,033.47
	353	785' of 4/0 at 600 volt	\$0.00	\$1,198.75	(\$1,198.75)	100%	(\$1,198.75)
	353	50' of 4/0 wire	\$0.00	\$31.55	(\$31.55)	100%	(\$31.55)
	353	760' of 4/0 hard drawn wire	\$0.00	\$1,310.88	(\$1,310.88)		(\$1,310 88)
	353	50' of 4/0 wire	\$0.00	\$106.74	(\$106.74)		(\$106.74)
	353	965° of 4/0 wire	\$0.00	\$2,876.75	(\$2,876.75)		(\$2,876.75)
	353	50" of 2" PVC Pipe	\$0.00	\$164.50	(\$164.50)		(\$164.50)
	353	Data Star Recorders	\$3,780.00	\$0.00	\$3,780.00	100%	\$3,780.00
	353	Installed Data Star Recorder Software Level #2	\$750.00	<b>\$</b> 0. <b>0</b> 0	\$750.00	100%	\$750.00
	353	Payroll & overheads for above install	\$1,014.38	\$0.00	\$1,014.38	100%	\$1,014.38
	353	Recorder Tape System GE	\$0.00	\$5,300.00	(\$5,300.00)		(\$5,300.00)
	353	Universal Mag Tape Cartridges	\$0.00	\$637,20	(\$637.20)		<b>(\$637</b> .20)
	353	Watt/Var Transducer	\$5,950.00	\$0.00	\$5,950.00	100%	\$5,950.00
	353	Vollt Transducer	\$185.00	\$0.00	\$185.00	100%	\$185.00
	353	Shipping & Handling	\$34.92	\$0.00	\$34.92	100%	\$34.92
	353	500' 4/C #12 AWG Control Cable	\$1,142.10	\$0.00	\$1,142.10	100%	\$1,142.10
	353 353	50' 1/2 watt precision resistors	\$41.39	\$0.00	\$41.39	100%	\$41.39
	353	350' T&B Stakon Terminals	\$86.45	\$0.00	\$86.45	100%	\$86.45
	353	69' Copper Wire	\$10.35	\$0.00	\$10.35	100%	\$10.35
	353	Cable Tie	<b>\$17.5</b> 5	\$0.00	\$17.55	100%	\$17.55
	353	Misc Parts	\$52.76	\$0.00	\$52.76	100%	\$52.76
	353	Labor for fixing recorder	\$368.80	\$0.00	\$368.80	100%	\$368.80
	353	Labor for wiring	\$124.20	\$0.00	\$124.20	100%	\$124.20
	353	Install GETEC Telemetering to REMVAC (Liabilities)	\$422.31	\$0.00	\$422.31	100%	\$422.31
	353	Overheads	\$6,638.54	\$0.00	\$6,638.54	100%	\$6,638.54
	353	Payroll	\$8,030.61	\$0.00	\$8,030.61		\$8,030.61
	353	Bristol DPC 333010A computer	\$4,230.71	\$0.00	\$4,230.71	100%	\$4,230.71
	353	Bristol SLC 371140A Recorders	\$5,771.41	\$0.00	\$5,771.41		<b>\$</b> 5,771.41
	353	Bristol Power Supply	\$515.05	\$0.00	<b>\$</b> 515.05		<b>\$</b> 515.05
	353	Labor to set up Bristol	\$2,355.00	\$0.00	\$2,355.00		\$2,355.00
	353	Spare Interrupter Assembly for 115kv Circuit breaker	\$9,512.00	\$0.00	\$9,512.00		\$9,512.00
	353	Install & purch EM-GRO Air Compressor	\$1,273.97	\$0.00	\$1,273.97	100%	\$1,273.97
	Subtota	u					\$1,436,655.76
Land		M. May Fasterd Province	<b>\$6,663</b> .35	\$0.00	\$6,663.35	50%	\$3,331.68
	350	Cost of Land purchased from New England Power Co.	\$817.70	\$0.00	\$817.70		\$408.85
	350	Acquisition Costs for land at Flagg Pond & Beech St. Subs	4017.70	<b>5</b> 3.00			\$3,740.53
	Subtota	si .					•
	Grand To	otal					\$1,440,396.28

**Grand Total** 

Notes:
1) Flagg Pd substation cost in original purchase from NEP split in half for 69kV and PTF 115 kV after removal of transformer cost of \$443,407.08.
2) Transfer acquisitions costs allocated to transformers, 69kV and PTF 115 kV based on the ratio of NEP Purchase costs in line above.

# WORKPAPER 2 Fitchburg Gas and Electric Light Company 1997 Cost of Capital Pursuant to NEPOOL Open Access Transmission Tariff - ATTACHMENT F

	Amount Outstanding 12/31/97	C.O.C.	Weight	Weighted Cost of Capital
Common Stock Equity	37,907,035	11.50%	51.01%	5.87%
Preferred Stock	2,400,886	6.90%	3.23%	0.22%
ong Term Debt (include, due in 1 yr.)	34,000,000	7.60%	45.76%	3.48%
Total	74,307,921			9.57%

#### Common Equity

Common Stock	\$22,629,147
Retained Earnings	16,786,861
Capital Stock Expense	(1,507,083)
Misc. Paid in Capital	(1,890)
Total	\$37,907,035

#### Preferred Stock \$100 Par

Series		Amount Outstanding 12/31/97	Annual Issuance Expense	Annual Dividend Expense	Total Annual Cost	Effective Cost %
5.125%		1,034,600	0	53,023	Dividend Total Annual Expense Cost	5.13%
5.125% 8.00%		1,407,000	0	•		8.00%
8.0076		2,441,600	ō			6.78%
ess: Capital Stock Expense	5.125%	12,784			Dividend         Total Annual           Expense         Cost           53,023         53,023           112,560         112,560	
2005. Ouplant Ototal England	8.00%	<u>27,930</u>				
	Subtotal	40,714				
	Total	2,400,886				6.90%

#### Long Term Debt

Series		Amount Outstanding 12/31/97	Annual Issuance Expense	Annual Interest Expense	Total Annual Cost	Effective Cost %
12 year Notes, due March 31, 2004 30 Year Note, due Nov 30, 2023	8.55% 6.75%	15,000,000 19,000,000	8,604 10,673	1,282,500 1,282,500	1,291,104 1,293,173	8.61% 6.81%
Total		34,000,000	19,277	2,565,000	2,584,277	7.60%

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FILED DEFICE OF THE SECRETARY

00 JAN 24 PM 3: 14

FEDERAL ENERGY REGULATORY COMMISSION

Attachment F

Form of Notice
Suitable for Publication
In the Federal Register

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Attachment F

# UNITED STATES OF AMERICA FEDERAL ENERGY REGULATORY COMMISSION

Fitchburg Gas and Electric Light Company)

Docket No. ER00-\_\_\_-000

#### NOTICE OF FILING

Take notice that on January 21, 2000, Fitchburg Gas and Electric Light Company ("FG&E) tendered for filing changes to the rate set forth in FG&E's Open Access Transmission Tariff, FERC Electric Tariff, First Revised Volume No. 4. The changes reflect a decrease in FG&E's Transmission Plant and corresponding decrease in FG&E's rate for transmission service.

Any person desiring to be heard or to protest such filing should file a motion to intervene or protest with the Federal Energy Regulatory Commission, 888 First Street, N.E., Room 1-A, Washington, D.C. 20426, in accordance with Rules 211 and 214 of the Commission's Rules of Practice and Procedure (18 C.F.R. §§ 385.211 and 385.214). All such petitions and protests should be filed on or before \_\_\_\_\_\_\_, 2000. Protests will be considered by the Commission to determine the appropriate action to be taken, but will not serve to make protestants parties to the proceedings. Any person wishing to become a party must file a motion to intervene. Copies of this filing are on file with the Commission and are available for public inspection.

David P. Boergers Secretary

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#### Attachment G

Table showing sales and services

And revenues from

Sales and service

Under the rate schedule to be superseded

And

Under the rate schedule change

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Attachment G
Fitchburg Gas and Electric Light Company
Sales and Services Under Schedule 7, Long-Term Firm and Short-Term Firm Point-to-Point Transmission Seises and Services Under Schedule 8, Non-Firm Point-to-Point Transmission Service

Customer 1		•		Way and beginned		
Schedule 7 Sales		Kate syky	Takel Bill	Effective line 1 1999	Total Bill	Refund Amount
DIOM S	2335	CHECKY MAY 13, 1821	2, 400 8	50.613	\$2,044.05	\$356.79
20 10 C		200	\$2,400.84	\$0.613	\$2,044.05	\$356.79
GG TON		\$0.23	\$2 400 84	\$0.613	\$2,044,05	\$356.79
1999 - Total	·		\$7,202.52		\$6,132.15	\$1,070.37
FG&E's Use of System(1)	tem <sup>(1)</sup>			:		
Schedule 7 Sales		Rate \$7kW		Revised Rate \$/kW		Use of system
Month	, KW	Effective May 13, 1997	Total Bill	Effective March 1, 1998.	Total Bill	over/(under) charge
40-10A	000	\$0.720	\$7,200.00	\$0.131	\$1,310.00	\$5,890.00
ים בייע		\$0.720	24 397 70	\$0.131	\$800.14	\$3,597.56
oe-finy	•	027.03	\$17.280.00	\$0.131	\$3,144.00	\$14,136.00
66-idy		50.720	61 440 00	\$0.131	\$262.00	\$1,178.00
Total		07.1.04	530.317.70		\$5,516.14	\$24,801.56
9	7					
		Rate S/kW		Revised Rate \$/kW		Use of system
Month	K	Effective May 13, 1997	Total Bill	Effective June 1, 1999	Total Bill	over/(under) charge
99-Inc	ਲ	\$0.720	\$27,360.00	\$0.613	\$23,294.00	\$4,066.00
Aug-99		\$0.720	\$7,200.00	\$0.613	\$6,130.00	\$1,070.00
Sep-98		\$0.720	51.440.00	\$0.613	\$1,226.00	\$214.00
Total			\$36,000.00		\$30,650.00	\$5,350.00
Schodule 8 Sales		Rate \$78wh		Revised Rate \$7Mmh		Use of system
	•	100 to 10	Total Dill	Effective Merch 1 1998	Total Bill	over/(under) charge
	-	CO 240	6144 20	50.134	\$26.13	\$118.17
Mar-90	1 - 1	\$0.740	6555.00	50 134	\$100.50	\$454.50
96-104 104	Ĭ	\$0.740	\$132534	20.132	\$239.99	\$1,085.35
os-kew		\$0.740	CR54 18	\$0.13	\$118.46	\$535.70
86-UDC		<b>\$</b> 0.740	\$295.78	50 134	\$53.47	\$241.79
ה-יחר מיים		£0.740	\$577.20	\$1.00	\$104.52	\$472.68
Total	. 4	£	\$3,551.26		\$643.07	\$2,908.19
Grand Total	96,907		\$69,868.96		\$36,809.20	\$33,059.76

(1) FG&E's use of the System is "imputed revenue".